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Emissions Inventory System/Point Source (EIS/PS) Test Run Series Documentation

ORIGINAL

EPA-450/4-80-019

Emissions Inventory System/ Point Source (EIS/PS) Test Run Series Documentation

by

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Contract No. 68-02-3011

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Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Air, Noise, and Radiation
Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

October 1980

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INTRODUCTION

The purpose of this manual is to document the EIS/PS test run series released by the Environmental Protection Agency, as part of the EIS/PS installation package. This document replaces Air Pollution Training Institute Manual 475, Comprehensive Data Handling System, Volume 1, Emission Inventory Subsystem/Permits and Registration (EIS/P&R).

The test run series is divided into two major areas: basic test runs and ad hoc test runs. The basic test runs exercise each program in EIS/PS at least once and provide the user with a means of determining whether or not the installation of EIS/PS has been successful.

The ad hoc test runs further exercise the capabilities of the EIS/PS programs. The ad hoc test runs also provide the user with examples of how various combinations of EIS/PS programs may be used to generate certain reports or to accomplish special tasks. Any programs added to the original EIS/PS system are exercised by ad hoc test runs.

The EIS/PS User's Guide should be used as a reference in conjunction with this manual. Appendix A of this manual provides a cross-reference of test, procedures, and programs.

EIS/PS Test 1

Create and Print the Official NADB Emission Factor File and Description File

In this test run, the official NADB EIS/PS emission factor file and description file are created from current NEDS emission factor transactions using the cataloged procedure EPEME20 which executes PSRNEEF (EP0010), the NEDS emission factor file transaction sort program; PCVNEEF (EP0020), the NEDS to EIS/PS emission factor file transaction conversion program; PSREFTR (EP0030), the emission factor file transaction sort program; and PEMEFAC (EP0040), the emission factor file edit-maintenance program. A detailed report of the emission factor file and the description file is printed using the cataloged procedure EPRPE10 which executes PRPEFAC (EP0230), the emission factor file detailed report program.

PSRNEEF (EP0010) sorts NEDS emission factor file transactions into the sequence required by PCVNEEF (EP0020). Figure PST1-1 shows the NEDS emission factor file transaction formats. The fields of each transaction are sorted in the following order:

Columns	Description	Sort Order
1 - 8	SCC	Ascending
80	Card Type	Ascending
10	Action Code	*

The first transaction in the sorted file is a header record generated by PSRNEEF (EP0010). All NEDS emission factor file transactions must be sorted by PSRNEEF (EP0010) before they can be used as input to PCVNEEF (EP0020).

PCVNEEF (EP0020) converts NEDS emission factor file transactions into EIS/PS emission factor file transactions. There are three types of NEDS emission factor file transactions: type-1, type-2, and type-3. Refer to Figure PST1-1 for the NEDS emission factor file transaction formats. These NEDS emission factor transactions are converted into EIS/PS emission factor file transactions, of which there are four types. Types 1, 2, and 3 are used

---

* Sort sequence is D (delete), A (add), C (change).

to create or update records in the EIS/PS description file and type-4 transactions are used to create or update records in the EIS/PS emission factor file. Figures PST1-2 and PST1-3 show the EIS/PS emission factor file transaction formats and the transaction load sheet, respectively.

In the input NEDS emission factor transaction file there can be a maximum of three NEDS transactions, one of each type, associated with a given SCC number. Each transaction associated with a given SCC number must contain the same action code. Data from a NEDS type-1 transaction is transferred to data fields of EIS/PS type-1 and type-2 transactions. Data from a NEDS type-2 transaction is transferred to data fields of EIS/PS type-2 and type-3 transactions. A NEDS type-3 transaction is used to create EIS/PS type-4 transactions for the five criteria pollutants (TSP, SO_2, NO_x, HC, and CO). Also, if the NEDS type-3 transaction is an add transaction, an EIS/PS type-4 transaction containing a pollutant ID of zero is created for the purpose of entering ash and sulfur contents for the SCC.

The creation of an emission factor file record requires a NEDS type-3 transaction. If NEDS type-1 and/or type-2 transactions are not present for a SCC number, the corresponding EIS/PS transaction types 1, 2, and 3 will be generated. The data fields for these generated transactions will contain messages indicating that they were created by PCVNEEF (EP0020). Any combination of the three types of NEDS transactions is valid for change transactions. Corresponding EIS/PS transactions are generated from the NEDS change transactions, provided that all the data fields of the NEDS transactions are not blank. Only the NEDS type-1 transaction is valid as a delete transaction.

The option card contains a list option and an option date. When LIST is coded in columns 1 through 4 of the option card, a listing of the input NEDS transactions and the associated EIS/PS transactions will be printed. Leaving this field blank will cause the transaction listing to be suppressed. An option date must appear in columns 21 through 25 of the option card in the Julian form YYDDD, where YY is the year and DDD is the day of the year. The option date is inserted in the output EIS/PS transactions and should therfore be the current date.

PSREFTR (EP0030) sorts EIS/PS emission factor transactions (see Figure PST1-2) into the sequence required by the emission factor file edit-maintenance program. The fields of each transaction are sorted in the following order:

Columns	Description	Sort Order
3 - 10	SCC	Ascending
11	Emission Factor Origin	Ascending
12	Emission Factor Source Type	Ascending
13 - 17	Pollutant ID	Ascending
1	Card Type	Ascending
2	Action Code	*
18 - 22	Date	Ascending

The first transaction in the sorted file is a header record generated by PSREFTR (EP0030). All emission factor file transactions _must_ be sorted by PSREFTR (EP0030) before they can be used to create or update the emission factor and description files.

PEMEFAC (EP0040) edits EIS/PS emission factor file transactions and updates the EIS/PS emission factor and description files using those transactions that pass the edit criteria. See Figure PST1-2 for the four EIS/PS emission factor file transaction formats and Figure PST1-3 for the load sheet.

Transaction types 1, 2, and 3 are used for updating the description file, and type-4 transactions are used for updating the emission factor file. Therefore, the following transactions are required to add a new SCC to the files: one type-1 transaction, one type-2 transaction, one type-3 transaction, and one or more type-4 transactions. A maximum of 17 type-4 (pollutant) transactions is allowed by the program for each SCC/ORIGIN/SOURCE combination, the first of which _must_ contain a zero pollutant ID. The type-4 transaction containing the zero pollutant ID allows the user to enter the ash and sulfur contents for the specified SCC.

---

* Sort sequence is D (delete), A (add), C (change).

When these files are updated, the header record control date for each file is updated using the date specified by the user on the option card. These header records also contain the date of the previous update run as well as a generation number which begins at 1 and is incremented by 1 during each update run. Therefore, the user can determine that the most recent files are being used.

The option card must contain a control date supplied by the user. This date is coded in columns 1 through 5 and must be in the Julian form YYDDD. The option card control date must be greater than the control dates in both file header records. The warning-suppression option controls the printing of warning messages. Coding FLAGW in columns 7 through 11 will cause any warning messages that are generated to be printed in the diagnostic report. To suppress the listing of these warning messages, the field must be left blank. Also, if the field is coded incorrectly, the warning messages will be suppressed. The list option allows the user to obtain listings of the transactions, the input emission factor and description files, and the output emission factor and description files. Coding LIST in columns 13 through 16 will cause all five listings to be printed; leaving this field blank will cause all five listings to be suppressed. Also, if the field is coded incorrectly, the lisings will be suppressed.

PRPEFAC (EP0230) produces a detailed report of the EIS/PS emission factor file and description file. The report is printed in ascending order by SCC number. The description record for each SCC is printed first, followed by all of the emission factor file records which contain a matching SCC number. Each SCC group is further subdivided by ORIGIN/SOURCE combinations as they appear in the emission factor file.

The run stream for this test run contains the JCL needed to create the official NADB EIS/PS emission factor and description files and produce a detailed report of these files. This run stream is shown in Figure PST1-4. It does not show all the input NEDS emission factor file transactions in the run stream, but does show the necessary JCL. The sample output produced by this test run is shown in Figure PST1-5.

First, the run stream executes the cataloged procedure EPEME20. Substitutable parameters are used to name EPEMFAC as the new emission factor file and EPDESCR as the new description file. The user must supply the DD (data definition) information for the input NEDS emission factor file transactions in the SORT1 step and the option card files in the CONVERT and UPDATE steps. Since this test run creates the initial EIS/PS emission factor and description files, there is obviously not an input emission factor file or description file to be accessed. This is why the old emission factor file EPSOLEF, and the old description file, EPSOLDS, must be dummy files in the UPDATE step. The option specified in the CONVERT step of this test run is 80032, and the options specified in the UPDATE step are 80032 and FLAGW.

Next, the cataloged procedure EPRPE10 is executed to produce a detailed report of the emission factor and description files. Substitutable parameters are used to specify EPEMFAC as the input emission factor file and EPDESCR as the input description file.

Header Record

Column #	Field Length	Data Type	Description
1 - 8	8	Numeric	Zeroes
9 - 80	72		Not Used

(Page 1 of 4)

Figure PST1-1. NEDS Emission Factor File Transaction Formats

Card 1

Column #	Field Length	Data Type	Description
1 - 8	8	Numeric	SCC Number
9	1		Not Used
10	1	Alphabetic	Action Code
11 - 27	17	Alphanumeric	SCC Description 1
28 - 44	17	Alphanumeric	SCC Description 2
45 - 61	17	Alphanumeric	SCC Description 3
62 - 78	17	Alphanumeric	SCC Description 4
79	1		Not Used
80	1	Numeric	Card Type

(Page 2 of 4)

Figure PST1-1 - continued. NEDS Emission Factor File Transaction Formats

Card 2

Column #	Field Length	Data Type	Description
1 - 8	8	Numeric	SCC Number
9	1		Not Used
10	1	Alphabetic	Action Code
11 - 45	35	Alphanumeric	Units Description 1
46 - 79	34	Alphanumeric	Units Description 2
80	1	Numeric	Card Type

(Page 3 of 4)

Figure PST1-1 - continued. NEDS Emission Factor File Transaction Formats

Card 3

Columns	Field Length	Data Type	Description
1 - 8	8	Numeric	SCC Number
9	1		Not Used
10	1	Alphabetic	Action Code
11 - 19	9	Numeric	TSP Emission Factor*
20 - 23	4	Alphanumeric	TSP Flags
24 - 32	9	Numeric	SO_2 Emission Factor*
33 - 36	4	Alphanumeric	SO_2 Flags
37 - 45	9	Numeric	NO_x Emission Factor*
46 - 49	4	Alphanumeric	NO_x Flags
50 - 58	9	Numeric	HC Emission Factor*
59 - 62	4	Alphanumeric	HC Flags
63 - 71	9	Numeric	CO Emission Factor*
72 - 75	4	Alphanumeric	CO Flags
76 - 79	4		Not Used
80	1	Numeric	Card Type

---

*Format includes a decimal point with 6 digits to the left and 2 digits to the right.

(Page 4 of 4)

Figure PST1-1 - continued. NEDS Emission Factor File Transaction Formats

Header Card

Columns	Field Length	Data Type	Definition
1 - 22	22	Numeric	Zeroes
23 - 80	58		Not Used

(Page 1 of 5)

Figure PST1-2. EIS/PS Emission Factor File Transaction Formats

Card 1

Columns	Field Length	Data Type	Description
1	1	Numeric	Card Type
2	1	Alphabetic	Action Code
3 - 10	8	Numeric	SCC Number
11 - 17	7	Blank	Key Alignment
18 - 22	5	Numeric	Date
23 - 39	17	Alphanumeric	SCC Description - Category 1
40 - 56	17	Alphanumeric	SCC Description - Category 2
57 - 73	17	Alphanumeric	SCC Description - Category 3
74 - 80	7		Not Used

(Page 2 of 5)

Figure PST1-2. EIS/PS Emission Factor File Transaction Formats

Card 2

Columns	Field Length	Data Type	Description
1	1	Numeric	Card Type
2	1	Alphabetic	Action Code
3 - 10	8	Numeric	SCC Number
11 - 17	7	Blank	Key Alignment
18 - 22	5	Numeric	Date
23 - 39	17	Alphanumeric	SCC Description - Category 4
40 - 74	35	Alphanumeric	Units Description, Characters 1 to 35
75 - 80	6		Not Used

(Page 3 of 5)

Figure PST1-2 - continued. EIS/PS Emission Factor File Transaction Formats

Card 3

Columns	Field Length	Data Type	Definition
1	1	Numeric	Card Type
2	1	Alphabetic	Action Code
3 - 10	8	Numeric	SCC Number
11 - 17	7	Blank	Key Alignment
18 - 22	5	Numeric	Date
23 - 56	34	Alphanumeric	Units Description, Characters 36 to 69
57 - 80	24		Not Used

(Page 4 of 5)

Figure PST1-2 - continued. EIS/PS Emission Factor File Transaction Formats

Card 4

Columns	Field Length	Data Type	Description
1	1	Numeric	Card Type
2	1	Alphabetic	Action Code
3 - 10	8	Numeric	SCC Number
11	1	Alphabetic	Emission Factor Origin
12	1	Alphanumeric	Emission Factor Source Type
13 - 17	5	Numeric	Pollutant ID
18 - 22	5	Numeric	Date
23 - 42	20	Alphanumeric	Pollutant Name
43 - 44	2		NEDS V Flags (not used)
45	1	Alphabetic	Ash Flag
46	1	Alphabetic	Sulfur Flag
47 - 48	2	Alphanumeric	Unit of Measure Code
49 - 57	9	Numeric	Emission Factor
58 - 60	3	Numeric	Ash Content*
61 - 63	3	Numeric	Sulfur Content*
64 - 66	3	Numeric	Control Device Efficiency
67	1	Alphanumeric	Emission Factor Confidence Level
68 - 80	13		Not Used

---

*Necessary only on zero pollutant transactions

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Figure PST1-2 - continued. EIS/PS Emission Factor File Transaction Formats

BEST DOCUMENT AVAILABLE

AGENCY ________

EMISSIONS INVENTORY SYSTEM/POINT SOURCE (EIS/PS)
COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
EMISSION FACTOR FILE TRANSACTIONS

BY ________
DATE ________
PAGE ______ OF ______

SCC NUMBER	DATE OF RECORD YR	DAY
3 10	18	22

NBR	ACTION	NEDS CATEGORY 1	NEDS CATEGORY 2	NEDS CATEGORY 3
	2	23	40	57 73
1				

NBR	ACTION	NEDS CATEGORY 4	NEDS UNITS 1 - 35
1	2	23	40 74
2			

NBR	ACTION	NEDS UNITS 36 - 69
1	2	23 56
3		

NBR	ACTION		ORG	SRC	POLLUTANT ID		POLLUTANT NAME	FLAGS V	FLAGS A	FLAGS S	UNIT MEAS	EMISSION FACTOR	ASH CNT	SUL CNT	CDEF	CONF
1	2		11	12	13 17		23 42	43	45	46	47	49	58	61	64	67
4					0 0 0 0 0											
4																
4																
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Figure PST1-3. EIS/PS Emission Factor File Transaction Load Sheet

```
//PSTEST01 JOB   (ACCOUNTING INFO)
//*
//*   CREATE THE LIVE EMISSION FACTOR FILE AND DESCRIPTION FILE
//*   FROM NEDS TRANSACTIONS AND PRODUCE AN EMISSION FACTOR
//*   DETAILED REPORT
//*
//TEST1A EXEC EPEMF20,
//        NEWEMFC=EPEMFAC,
//        NEWDESC=EPDESCR,
//        WORKSPC='50,20'
//*
//*   PRODUCE THE LIVE EMISSION FACTOR FILE AND DESCRIPTION
//*   FILE FROM CURRENT NEDS TRANSACTIONS
//*
//SUB11.INPUT DD *
10100101 AEXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  PULVERIZED COAL    1
10100101 ATONS BURNED                                                         0 2
10100101 A    17.00  A     38.00  S     18.00         .00         1.00          3
10100102 AEXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  TRV GRATE STOKERS 1
10100102 ATONS BURNED                                                         0 2
10100102 A     1.00  A     38.00  S     10.00         .00         1.00          3
10100103 AEXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  10-100MMBTU PUL** 1
10100103 ATONS BURNED                                                         0 2
10100103 A    17.00  A     38.00  S     18.00         .03         1.00          3
10100104 AEXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  10-100MMBTU STO** 1
10100104 ATONS BURNED                                                         0 2
10100104 A     2.00  A     38.00  S     10.50         .20         6.00          3
10100105 AEXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  <10MMBTU PULVIZ** 1
10100105 ATONS BURNED                                                         0 2
10100105 A    17.00  A     38.00  S     18.00         .03         1.00          3
10100106 AEXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  <10MMBTU STOKER** 1
10100106 ATONS BURNED                                                         0 2
10100106 A     2.00  A     38.00  S      6.00         .20        10.00          3
10100199 AEXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  OTHER/NOT CLASI** 1
10100199 ATONS BURNED                                                         0 2
10100199 A    17.00  A     38.00  S     18.00         .03         1.00          3
10100201 AEXTCOMB BOILER   ELECTRIC GENERATNBITUMINOUS COAL  PULV COAL WET BOT 1
10100201 ATONS BURNED                                                         0 2
```

(Remainder of transactions omitted)

```
//CONVERT.OPTIONS DD *
                    R0032
//UPDATE.EPSOLFF DD DUMMY
//UPDATE.EPSOLDS DD DUMMY
//UPDATE.OPTIONS DD *
R0032 FLAGN
//*
//*   PRINT A DETAILED REPORT OF THE EMISSION FACTOR FILE
//*
//TEST1B EXEC EPRPF10,
//       EMFCFIL=EPEMFAC,
//       DESCFIL=EPDESCR
```

Figure PST1-4. Run Stream

```
                        EIS/PS NEDS EMISSION FACTOR FILE TRANSACTION SORT PROGRAM  -  DIAGNOSTIC REPORT                    PAGE     1

PROGRAM NAME: PSRNEEF (EP0010)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF TRANSACTIONS READ:          6,137
NUMBER OF TRANSACTIONS WRITTEN:       6,138
NUMBER OF ERRORS DETECTED:                0
```

Figure PST1-5. Sample Output

(Page 1 of 6)

```
                           NEDS TO EIS/PS EMISSION FACTOR CONVERSION PROGRAM  -  DIAGNOSTIC REPORT                        PAGE       1

PROGRAM NAME: PCVNEEF (EP0020)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

                                   EIS/PS EMISSION FACTOR CONVERSION CONTROL CARDS LISTING

LIST OPTION          JULIAN DATE
                     80032                                                     6158.

10101201 A                                                                                3
          *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

10101202 A                                                                                3
          *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

10101203 A                                                                                3
          *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

10101301 A                                                                                3
          *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

10101303 A                                                                                3
          *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

10199997 A                                                                                3
          *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

10199998 A                                                                                3
          *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

10199999 A                                                                                3
          *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

10200702 A                                                                                3
          *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

10200703 A                                                                                3
          *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

10200705 A                                                                                3
```

Figure PST1-5 - continued. Sample Output
(Page 2 of 6)

```
                    NEDS TO EIS/PS EMISSION FACTOR CONVERSION PROGRAM  -  SUMMARY REPORT                    PAGE     1


INPUT (NEDS) RECORD COUNT:          6,138
OUTPUT (EIS/PS) RECORD COUNT:      11,615
NUMBER OF ABORTS DETECTED:              0
NUMBER OF ERRORS DETECTED:            570
NUMBER OF WARNINGS DETECTED:            1


PROGRAM NAME: PCVNEEF (EP0020)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
```

```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
                 EIS/PS EMISSION FACTOR FILE TRANSACTION SORT PROGRAM  -  DIAGNOSTIC REPORT                 PAGE     1

PROGRAM NAME: PSREFTR (EP0030)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF TRANSACTIONS READ:                              11,615
NUMBER OF TRANSACTIONS WRITTEN:                           11,616
NUMBER OF ERRORS DETECTED:                                     0
NUMBER OF TRANSACTIONS REJECTED:                               0
```

Figure PST1-5 - continued. Sample Output
(Page 3 of 6)

```
                  EIS/PS EMISSION FACTOR FILE EDIT-MAINTENANCE PROGRAM  -  DIAGNOSTIC REPORT                         PAGE     1

PROGRAM NAME: PEMEFAC (EP0040)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


OPTION CARD

   CONTROL DATE IS 80032,  ERROR OPTION IS FLAGW  ,  LIST OPTION IS NOLIST




NUMBER OF INPUT TRANSACTIONS READ:                          11,616
NUMBER OF ABORT MESSAGES:                                        0
NUMBER OF DISASTER MESSAGES:                                     0
NUMBER OF ERROR MESSAGES:                                        0
NUMBER OF WARNING MESSAGES:                                      0
NUMBER OF CONDITIONAL MESSAGES:                                  0
NUMBER OF TRANSACTIONS REJECTED:                                 0
NUMBER OF SCC-DESCRIPTION FILE RECORDS READ:                     0
NUMBER OF SCC-DESCRIPTION FILE RECORDS WRITTEN:              1,477
NUMBER OF SCC-EMISSION-FACTOR FILE RECORDS READ:                 0
NUMBER OF SCC-EMISSION-FACTOR FILE RECORDS WRITTEN:          7,188



- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -



                     EMISSION FACTOR FILE DETAILED REPORT PROGRAM  -  DIAGNOSTIC REPORT                          PAGE     1

PROGRAM NAME: PRPEFAC (EP0230)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
```

Figure PSTI-5 - continued. Sample Output
(Page 4 of 6)

```
                                           EIS/PS EMISSION FACTOR FILE LISTING                                          PAGE     1


SCC 10100101 DATE 80032 CAT1 EXTCOMB BOILER    CAT2 ELECTRIC GENERATN CAT3 ANTHRACITE COAL   CAT4 PULVERIZED COAL
                        UNITS  TONS BURNED                                                                 0

    FEDERAL      POLL ID 00000                          DATE 80032  CNTL 80032  CONTENTS: ASH=     , SULFUR=
                 POLL ID 11101  PARTICULATE FACTOR      DATE 80032  EMF      17.000                                  A/S A
                 POLL ID 42101  CO FACTOR               DATE 80032  EMF       1.000
                 POLL ID 42401  SO2 FACTOR              DATE 80032  EMF      38.000                                  A/S S
                 POLL ID 42602  NOX FACTOR              DATE 80032  EMF      18.000
                 POLL ID 43101  HC FACTOR               DATE 80032  EMF       0.000

SCC 10100102 DATE 80032 CAT1 EXTCOMB BOILER    CAT2 ELECTRIC GENERATN CAT3 ANTHRACITE COAL   CAT4 TRV GRATE STOKERS
                        UNITS  TONS BURNED                                                                 0

    FEDERAL      POLL ID 00000                          DATE 80032  CNTL 80032  CONTENTS: ASH=     , SULFUR=
                 POLL ID 11101  PARTICULATE FACTOR      DATE 80032  EMF       1.000                                  A/S A
                 POLL ID 42101  CO FACTOR               DATE 80032  EMF       1.000
                 POLL ID 42401  SO2 FACTOR              DATE 80032  EMF      38.000                                  A/S S
                 POLL ID 42602  NOX FACTOR              DATE 80032  EMF      10.000
                 POLL ID 43101  HC FACTOR               DATE 80032  EMF       0.000

SCC 10100103 DATE 80032 CAT1 EXTCOMB BOILER    CAT2 ELECTRIC GENERATN CAT3 ANTHRACITE COAL   CAT4 10-100MMBTU PUL**
                        UNITS  TONS BURNED                                                                 0

    FEDERAL      POLL ID 00000                          DATE 80032  CNTL 80032  CONTENTS: ASH=     , SULFUR=
                 POLL ID 11101  PARTICULATE FACTOR      DATE 80032  EMF      17.000                                  A/S A
                 POLL ID 42101  CO FACTOR               DATE 80032  EMF       1.000
                 POLL ID 42401  SO2 FACTOR              DATE 80032  EMF      38.000                                  A/S S
                 POLL ID 42602  NOX FACTOR              DATE 80032  EMF      18.000
                 POLL ID 43101  HC FACTOR               DATE 80032  EMF       0.030

SCC 10100104 DATE 80032 CAT1 EXTCOMB BOILER    CAT2 ELECTRIC GENERATN CAT3 ANTHRACITE COAL   CAT4 10-100MMBTU STO**
                        UNITS  TONS BURNED                                                                 0

    FEDERAL      POLL ID 00000                          DATE 80032  CNTL 80032  CONTENTS: ASH=     , SULFUR=
                 POLL ID 11101  PARTICULATE FACTOR      DATE 80032  EMF       2.000                                  A/S A
                 POLL ID 42101  CO FACTOR               DATE 80032  EMF       6.000
                 POLL ID 42401  SO2 FACTOR              DATE 80032  EMF      38.000                                  A/S S
                 POLL ID 42602  NOX FACTOR              DATE 80032  EMF      10.500
                 POLL ID 43101  HC FACTOR               DATE 80032  EMF       0.200

SCC 10100105 DATE 80032 CAT1 EXTCOMB BOILER    CAT2 ELECTRIC GENERATN CAT3 ANTHRACITE COAL   CAT4 <10MMBTU PULVIZ**
                        UNITS  TONS BURNED                                                                 0

    FEDERAL      POLL ID 00000                          DATE 80032  CNTL 80032  CONTENTS: ASH=     , SULFUR=
                 POLL ID 11101  PARTICULATE FACTOR      DATE 80032  EMF      17.000                                  A/S A
                 POLL ID 42101  CO FACTOR               DATE 80032  EMF       1.000
```

Figure PST1-5 - continued. Sample Output

(Page 5 of 6)

```
                                                EIS/PS EMISSION FACTOR FILE LISTING SUMMARY                                   PAGE     1


HEADER RECORD CONTROL FIELDS

                    CONTROL DATE IS 80032, PREVIOUS DATE IS      0, GENERATION NUMBER IS       1

DESCRIPTION FILE RECORD COUNT:          1477

EMISSION FACTOR FILE RECORD COUNT:      7188

NUMBER OF SCCS IN LIST:                 1476

NUMBER OF POLLUTANT ENTRIES IN LIST:    7187
   FEDERAL POLLUTANT ENTRIES:           7187
   STATE POLLUTANT ENTRIES:                0
   LOCAL POLLUTANT ENTRIES:                0

NUMBER OF ERRORS DETECTED:                 0

NUMBER OF PAGES IN REPORT:               278

PROGRAM NAME: PRPEFAC (EP0230)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
```

Figure PSTI-5 - continued. Sample Output

(Page 6 of 6)

EIS/PS Test 2

Create the Emission Factor File and Description File from NEDS Transactions

In this test run the emission factor file and description file are created from NEDS transactions using the cataloged procedure EPEME20 which executes PSRNEEF (EP0010), the NEDS emission factor file transaction sort program; PCVNEEF (EP0020), the NEDS to EIS/PS emission factor file transaction conversion program; PSREFTR (EP0030), the emission factor file transaction sort program; and PEMEFAC (EP0040), the emission factor file edit-maintenance program.

These same programs were used in Test 1 to create the official NADB EIS/PS emission factor file and description file. For a description of each program refer to Test 1.

The run stream for this test run contains the JCL needed to create the EIS/PS emission factor and description files. This run stream is shown in Figure PST2-1. It does not show all the input NEDS emission factor file transactions in the run stream, but does show the necessary JCL.

The cataloged procedure executed by this run stream is EPEME20. Substitutable parameters are used to name EPEMFC1 as the new emission factor file and EPDESC1 as the new description file. The user must supply the DD (data definition) information for the input NEDS emission factor file transactions in the SORT1 step and the option card files in the CONVERT and UPDATE steps. Since this test run creates the initial EIS/PS emission factor and description files, there is obviously not an input emission factor file or description file to be accessed. This is why the old emission factor file EPSOLEF, and the old description file, EPSOLDS, must be dummy files in the UPDATE step. The options specified in the CONVERT step of this test run are LIST and 80057, and the options specified in the UPDATE step are 80057, FLAGW, and LIST. Refer to Figure PST2-2 for the sample output produced by this test run.

```
//PSTEST02 JOB    (ACCOUNTING INFO)
//*
//*   CREATE THE TEST EMISSION FACTOR FILE AND DESCRIPTION FILE FROM
//*   MEDS TRANSACTIONS
//*
//TEST2A EXEC EPEMF20,
//      TIME1='0,30',
//      TIME2='0,30',
//      TIME3='0,30',
//      TIME4='0,30',
//      NEWEMFC=EPEMFC1,
//      NEWDESC=EPDESC1,
//      WORKSPC='50,20'
//*
//*   PRODUCE THE TEST EMISSION FACTOR FILE AND DESCRIPTION FILE
//*
//SORT1.INPUT DD *
10100101 AEXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  PULVERIZED COAL    1
10100101 ATONS BURNED                                                         0 2
10100101 A    17.00  A     38.00  S     18.00          .00         1.00        3
10100105 AEXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  <10MMBTU PULVIZ** 1
10100105 ATONS BURNED                                                         0 2
10100105 A    17.00  A     38.00  S     18.00          .03         1.00        3
10100106 AEXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  <10MMBTU STOKER** 1
10100106 ATONS BURNED                                                         0 2
10100106 A      2.00 A     38.00  S      6.00          .20        10.00        3
30100501 ACHEMICAL MFG     CARBON BLACK     CHANNEL PROCESS                    1
30100501 A                                                                     2
30100501 A  2300.00          .00         .00     11500.00    33500.00          3
30101302 ACHEMICAL MFG     AGRICULTURAL CHEMNITRIC ACID      ABSROP TAILGAS/NW 1
30101302 ATONS PURE ACID PRODUCED                                             0 2
30101302 A                               4.50                                  3
30200101 AFOOD/AGRICULTURE ALFALFA DEHYDRATNGENERAL          GENERAL        ** 1
30200101 ATONS MEAL PRODUCED                                                  0 2
30200101 A   60.00                                                             3
30200201 AFOOD/AGRICULTURE COFFEE ROASTING  ROASTER          DIRECT FIRED      1
30200201 ATONS GREEN BEANS                                                    0 2
30200201 A     7.60                       .10                                  3
30200202 AFOOD/AGRICULTURE COFFEE ROASTING  ROASTER          INDIRECT FIRED    1
30200202 ATONS GREEN BEANS                                                    0 2
30200202 A     4.20                       .10                                  3
```

(Remainder of transactions omitted)

```
//CONVERT.OPTIONS DD *
LIST                R0057
//UPDATE.EPSOLEF DD DUMMY
//UPDATE.EPSOLDS DD DUMMY
//UPDATE.OPTIONS DD *
R0057 FLAGN LIST
```

Figure PST2-1. Run Stream

BEST DOCUMENT AVAILABLE

```
                    EIS/PS NEDS EMISSION FACTOR FILE TRANSACTION SORT PROGRAM  -  DIAGNOSTIC REPORT                    PAGE     1

PROGRAM NAME: PSRNEEF (EP0010)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF TRANSACTIONS READ:           327
NUMBER OF TRANSACTIONS WRITTEN:        328
NUMBER OF ERRORS DETECTED:               0
```

Figure PST2-2. Sample Output (Page 1 of 9)

```
                         NEDS TO EIS/PS EMISSION FACTOR CONVERSION PROGRAM  -  DIAGNOSTIC REPORT                    PAGE      1

PROGRAM NAME: PCVNEEF (EP0020)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

                                                EIS/PS EMISSION FACTOR CONVERSION CONTROL CARDS LISTING

LIST OPTION          JULIAN DATE
LIST                 80057                                                     352.

10300701 AEXTCOMB BOILER   COMMERCL-INSTUTNLPROCESS GAS      SEWAGE GAS        1
10300701 AMILLION CUBIC FEET BURNED                                            2
         *** PCVNEEF 005 ERROR - NO VALID RECORD TYPE 3 FOR SCC 10300701 TO BE ADDED - NO OUTPUT FOR THIS SCC
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

30199999 A                                                                     3
         *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

30200101 AFOOD/AGRICULTURE ALFALFA DEHYDRATNGENERAL          GENERAL        ** 1
         *** PCVNEEF 004 ERROR - ADDITIONAL RECORD FOR RECORD TYPE 1 OF SCC NUMBER 30200101 - RECORD REJECTED

30200101 ATONS MEAL PRODUCED                                                 0 2
         *** PCVNEEF 004 ERROR - ADDITIONAL RECORD FOR RECORD TYPE 2 OF SCC NUMBER 30200101 - RECORD REJECTED

30200101 A    60.00                                                            3
         *** PCVNEEF 004 ERROR - ADDITIONAL RECORD FOR RECORD TYPE 3 OF SCC NUMBER 30200101 - RECORD REJECTED
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

30200199 A                                                                     3
         *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

30500199 A                                                                     3
         *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

30501605 A                                                                     3
         *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

30501606 A                                                                     3
         *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

39000502 AINDUSTRIAL PROCESINPROCESS FUEL    DISTILLATE OIL    CEMENT KILN/DRYER 1

         *** PCVNEEF 010 WARNING - SCC 39000502 TO BE ADDED, BUT NO RECORD 2 FOUND - OUTPUT FIELDS GENERATED

39000502 AINDUSTRIAL PROCESINPROCESS FUEL    DISTILLATE OIL    CEMENT KILN/DRYER 1
```

Figure PST2-2 - continued. Sample Output

(Page 2 of 9)

```
                    NEDS TO EIS/PS EMISSION FACTOR CONVERSION PROGRAM  -  SUMMARY REPORT                    PAGE      1


INPUT (NEDS) RECORD COUNT:          328
OUTPUT (EIS/PS) RECORD COUNT:       867
NUMBER OF ABORTS DETECTED:            0
NUMBER OF ERRORS DETECTED:           13
NUMBER OF WARNINGS DETECTED:          1

PROGRAM NAME: PCVNEEF (EP0020)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
```

Figure PST2-2 - continued. Sample Output (Page 3 of 9)

```
                                                     EMISSION FACTOR TRANSACTIONS LISTING                                    PAGE     1

INPUT (NEDS) EMISSION FACTOR TRANSACTIONS
                                                   OUTPUT (EIS/PS) EMISSION FACTOR TRANSACTIONS


10100101 AEXTCOMB BUILER   ELECTRIC GENERATNANTHRACITE COAL  PULVERIZED COAL   1
10100101 ATUNS BURNED                                                        0 2
10100101 A000017.00  A 000038.00  S 000018.00    000000.00    000001.00        3

                                                   1A10100101        80057EXTCOMB BUILER   ELECTRIC GENERATNANTHRACITE COAL
                                                   2A10100101        80057PULVERIZED COAL  TONS BURNED
                                                   3A10100101        80057                               0
                                                   4A10100101F 0000080057
                                                   4A10100101F 1110180057PARTICULATE FACTOR    A   000017000
                                                   4A10100101F 4240180057SO2 FACTOR             S  000038000
                                                   4A10100101F 4260280057NOX FACTOR                000018000
                                                   4A10100101F 4310180057HC FACTOR                 000000000
                                                   4A10100101F 4210180057CO FACTOR                 000001000
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

10100105 AEXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  <10MMBTU PULVIZ** 1
10100105 ATONS BURNED                                                        0 2
10100105 A000017.00  A 000038.00  S 000018.00    000000.03    000001.00        3

                                                   1A10100105        80057EXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL
                                                   2A10100105        80057<10MMBTU PULVIZ**TONS BURNED
                                                   3A10100105        80057                               0
                                                   4A10100105F 0000080057
                                                   4A10100105F 1110180057PARTICULATE FACTOR    A   000017000
                                                   4A10100105F 4240180057SO2 FACTOR             S  000038000
                                                   4A10100105F 4260280057NOX FACTOR                000018000
                                                   4A10100105F 4310180057HC FACTOR                 000000030
                                                   4A10100105F 4210180057CO FACTOR                 000001000
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

10100106 AEXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  <10MMBTU STOKER** 1
10100106 ATONS BURNED                                                        0 2
10100106 A000002.00  A 000038.00  S 000006.00    000000.20    000010.00        3

                                                   1A10100106        80057EXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL
                                                   2A10100106        80057<10MMBTU STOKER**TONS BURNED
                                                   3A10100106        80057                               0
                                                   4A10100106F 0000080057
                                                   4A10100106F 1110180057PARTICULATE FACTOR    A   000002000
                                                   4A10100106F 4240180057SO2 FACTOR             S  000038000
                                                   4A10100106F 4260280057NOX FACTOR                000006000
                                                   4A10100106F 4310180057HC FACTOR                 000000200
                                                   4A10100106F 4210180057CO FACTOR                 000010000
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

10200204 AEXTCOMB BOILER   INDUSTRIAL       BITUMINOUS COAL  SPREADER STOKER   1
```

Figure PST2-2 - continued. Sample Output (Page 4 of 9)

```
                    EIS/PS EMISSION FACTOR FILE TRANSACTION SORT PROGRAM  -  DIAGNOSTIC REPORT                    PAGE    1

PROGRAM NAME: PSREFTR (EP0030)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF TRANSACTIONS READ:                                      867
NUMBER OF TRANSACTIONS WRITTEN:                                   868
NUMBER OF ERRORS DETECTED:                                          0
NUMBER OF TRANSACTIONS REJECTED:                                    0
```

Figure PST2-2 - continued. Sample Output

(Page 5 of 9)

```
                    EIS/PS EMISSION FACTOR FILE EDIT-MAINTENANCE PROGRAM  -  DIAGNOSTIC REPORT                    PAGE      1

PROGRAM NAME: PEMEFAC (EP0040)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD

   CONTROL DATE IS 80057,  ERROR OPTION IS FLAGW  ,  LIST OPTION IS LIST



NUMBER OF INPUT TRANSACTIONS READ:                               868
NUMBER OF ABORT MESSAGES:                                          0
NUMBER OF DISASTER MESSAGES:                                       0
NUMBER OF ERROR MESSAGES:                                          0
NUMBER OF WARNING MESSAGES:                                        0
NUMBER OF CONDITIONAL MESSAGES:                                    0
NUMBER OF TRANSACTIONS REJECTED:                                   0
NUMBER OF SCC-DESCRIPTION FILE RECORDS READ:                       0
NUMBER OF SCC-DESCRIPTION FILE RECORDS WRITTEN:                  102
NUMBER OF SCC-EMISSION-FACTOR FILE RECORDS READ:                   0
NUMBER OF SCC-EMISSION-FACTOR FILE RECORDS WRITTEN:              565
```

Figure PST2-2 - continued. Sample Output
(Page 6 of 9)

BEST DOCUMENT AVAILABLE

```
                                         EIS/PS EMF UPDATE - TRANSACTION FILE LIST                                          PAGE      1
0000000000000000000000000000000000000000000000000000000000000000000000000000000000
1A10100101       80057EXTCOMB BOILER    ELECTRIC GENERATNANTHRACITE COAL
2A10100101       80057PULVERIZED COAL   TONS BURNED
3A10100101       80057                                 0
4A10100101F 0000080057
4A10100101F 1110180057PARTICULATE FACTOR    A   000017000
4A10100101F 4210180057CO FACTOR                 000001000
4A10100101F 4240180057SO2 FACTOR             S  000038000
4A10100101F 4260280057NOX FACTOR                000018000
4A10100101F 4310180057HC FACTOR                 000000000
1A10100105       80057EXTCOMB BOILER    ELECTRIC GENERATNANTHRACITE COAL
2A10100105       80057<10MMBTU PULVIZ**TONS BURNED
3A10100105       80057                                 0
4A10100105F 0000080057
4A10100105F 1110180057PARTICULATE FACTOR    A   000017000
4A10100105F 4210180057CO FACTOR                 000001000
4A10100105F 4240180057SO2 FACTOR             S  000038000
4A10100105F 4260280057NOX FACTOR                000018000
4A10100105F 4310180057HC FACTOR                 000000030
1A10100106       80057EXTCOMB BOILER    ELECTRIC GENERATNANTHRACITE COAL
2A10100106       80057<10MMBTU STOKER**TONS BURNED
3A10100106       80057                                 0
4A10100106F 0000080057
4A10100106F 1110180057PARTICULATE FACTOR    A   000002000
4A10100106F 4210180057CO FACTOR                 000010000
4A10100106F 4240180057SO2 FACTOR             S  000038000
4A10100106F 4260280057NOX FACTOR                000006000
4A10100106F 4310180057HC FACTOR                 000000200
1A10200204       80057EXTCOMB BOILER    INDUSTRIAL      BITUMINOUS COAL
2A10200204       80057SPREADER STOKER   TONS BURNED
3A10200204       80057                                 0
4A10200204F 0000080057
4A10200204F 1110180057PARTICULATE FACTOR    A   000013000
4A10200204F 4210180057CO FACTOR                 000002000
4A10200204F 4240180057SO2 FACTOR             S  000038000
4A10200204F 4260280057NOX FACTOR                000015000
4A10200204F 4310180057HC FACTOR                 000001000
1A10200205       80057EXTCOMB BOILER    INDUSTRIAL      BITUMINOUS COAL
2A10200205       80057OF/UF >10MMBTU/HRTONS BURNED
3A10200205       80057                                 0
4A10200205F 0000080057
4A10200205F 1110180057PARTICULATE FACTOR    A   000005000
4A10200205F 4210180057CO FACTOR                 000002000
4A10200205F 4240180057SO2 FACTOR             S  000038000
4A10200205F 4260280057NOX FACTOR                000015000
4A10200205F 4310180057HC FACTOR                 000001000
1A10200206       80057EXTCOMB BOILER    INDUSTRIAL      BITUMINOUS COAL
2A10200206       8005710-100MMBTU OFS**TONS BURNED
3A10200206       80057                                 0
4A10200206F 0000080057
```

Figure PST2-2 - continued. Sample Output
(Page 7 of 9)

```
                              EIS/PS EMF UPDATE - EMISSION FACTOR FILE OUTPUT FILE                              PAGE    1
000000000000000080057       000001
101001011 000008005780057
101001011 111018005780057PARTICULATE FACTOR    A   000017000
101001011 421018005780057CO FACTOR                 000001000
101001011 424018005780057SO2 FACTOR             S  000038000
101001011 426028005780057NOX FACTOR                000018000
101001011 431018005780057HC FACTOR                 000000000
101001051 000008005780057
101001051 111018005780057PARTICULATE FACTOR    A   000017000
101001051 421018005780057CO FACTOR                 000001000
101001051 424018005780057SO2 FACTOR             S  000038000
101001051 426028005780057NOX FACTOR                000018000
101001051 431018005780057HC FACTOR                 000000030
101001061 000008005780057
101001061 111018005780057PARTICULATE FACTOR    A   000002000
101001061 421018005780057CO FACTOR                 000010000
101001061 424018005780057SO2 FACTOR             S  000038000
101001061 426028005780057NOX FACTOR                000006000
101001061 431018005780057HC FACTOR                 000000200
102002041 000008005780057
102002041 111018005780057PARTICULATE FACTOR    A   000013000
102002041 421018005780057CO FACTOR                 000002000
102002041 424018005780057SO2 FACTOR             S  000038000
102002041 426028005780057NOX FACTOR                000015000
102002041 431018005780057HC FACTOR                 000001000
102002051 000008005780057
102002051 111018005780057PARTICULATE FACTOR    A   000005000
102002051 421018005780057CO FACTOR                 000002000
102002051 424018005780057SO2 FACTOR             S  000038000
102002051 426028005780057NOX FACTOR                000015000
102002051 431018005780057HC FACTOR                 000001000
102002061 000008005780057
102002061 111018005780057PARTICULATE FACTOR    A   000005000
102002061 421018005780057CO FACTOR                 000002000
102002061 424018005780057SO2 FACTOR             S  000038000
102002061 426028005780057NOX FACTOR                000015000
102002061 431018005780057HC FACTOR                 000001000
102002071 000008005780057
102002071 111018005780057PARTICULATE FACTOR    A   000013000
102002071 421018005780057CO FACTOR                 000001000
102002071 424018005780057SO2 FACTOR             S  000038000
102002071 426028005780057NOX FACTOR                000030000
102002071 431018005780057HC FACTOR                 000000300
102004011 000008005780057
102004011 111018005780057PARTICULATE FACTOR    S   000012000
102004011 421018005780057CO FACTOR                 000005000
102004011 424018005780057SO2 FACTOR             S  000159000
102004011 426028005780057NOX FACTOR                000060000
102004011 431018005780057HC FACTOR                 000001000
102004021 000008005780057
```

Figure PST2-2 - continued. Sample Output
(Page 8 of 9)

```
                         EIS/PS EMF UPDATE - SCC DESCRIPTION FILE OUTPUT LIST                          PAGE      1
0000000080057     000001
1010010180057EXTCOMB BOILER   ELECTRIC GENERAINANTHRACITE COAL  PULVERIZED COAL  TONS BURNED
1010010580057EXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  <10MMBTU PULVIZ**TONS BURNED
1010010680057EXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  <10MMBTU STOKER**TONS BURNED
1020020480057EXTCOMB BOILER   INDUSTRIAL        BITUMINOUS COAL  SPREADER STOKER  TONS BURNED
1020020580057EXTCOMB BOILER   INDUSTRIAL        BITUMINOUS COAL  OF/UF >10MMBTU/HRTONS BURNED
1020020680057EXTCOMB BOILER   INDUSTRIAL        BITUMINOUS COAL  10-100MMBTU UFS**TONS BURNED
1020020780057EXTCOMB BOILER   INDUSTRIAL        BITUMINOUS COAL  10-100MMBTU PUL**TONS BURNED
1020040180057EXTCOMB BOILER   INDUSTRIAL        RESIDUAL OIL     NO 6 OIL         1000 GALLONS BURNED
1020040280057EXTCOMB BOILER   INDUSTRIAL        RESIDUAL OIL     10-100MMBTU/HR **1000 GALLONS BURNED
1020040380057EXTCOMB BOILER   INDUSTRIAL        RESIDUAL OIL     <10MMBTU/HR    **1000 GALLONS BURNED
1020040480057EXTCOMB BOILER   INDUSTRIAL        RESIDUAL OIL     NO 5 OIL         1000 GALLONS BURNED
1020050180057EXTCOMB BOILER   INDUSTRIAL        DISTILLATE OIL   NO 1 AND NO 2 OIL1000 GALLONS BURNED
1020050280057EXTCOMB BOILER   INDUSTRIAL        DISTILLATE OIL   10-100MMBTU/HR **1000 GALLONS BURNED
1020050380057EXTCOMB BOILER   INDUSTRIAL        DISTILLATE OIL   <10MMBTU/HR    **1000 GALLONS BURNED
1020050480057EXTCOMB BOILER   INDUSTRIAL        DISTILLATE OIL   NO 4 OIL         1000 GALLONS BURNED
1020060180057EXTCOMB BOILER   INDUSTRIAL        NATURAL GAS      >100MMBTU/HR     MILLION CUBIC FEET BURNED
1020060280057EXTCOMB BOILER   INDUSTRIAL        NATURAL GAS      10-100MMBTU/HR   MILLION CUBIC FEET BURNED
1020060380057EXTCOMB BOILER   INDUSTRIAL        NATURAL GAS      <10MMBTU/HR      MILLION CUBIC FEET BURNED
1020110280057EXTCOMB BOILER   INDUSTRIAL        BAGASSE          10-100MMBTU/HR **TONS BURNED
1020110380057EXTCOMB BOILER   INDUSTRIAL        BAGASSE          <10MMBTU/HR    **TONS BURNED
1030020980057EXTCOMB BOILER   COMMERCL-INSTUTNLBITUMINOUS COAL  SPREADER STOKER  TONS BURNED
1030040280057EXTCOMB BOILER   COMMERCL-INSTUTNLRESIDUAL OIL     10-100MMBTU/HR **1000 GALLONS BURNED
1030040380057EXTCOMB BOILER   COMMERCL-INSTUTNLRESIDUAL OIL     <10MMBTU/HR    **1000 GALLONS BURNED
1030040480057EXTCOMB BOILER   COMMERCL-INSTUTNLRESIDUAL OIL     NO 5 OIL         1000 GALLONS BURNED
1030050180057EXTCOMB BOILER   COMMERCL-INSTUTNLDISTILLATE OIL   NO 1 AND NO 2 OIL1000 GALLONS BURNED
1030050280057EXTCOMB BOILER   COMMERCL-INSTUTNLDISTILLATE OIL   10-100MMBTU/HR **1000 GALLONS BURNED
1030050380057EXTCOMB BOILER   COMMERCL-INSTUTNLDISTILLATE OIL   <10MMBTU/HR    **1000 GALLONS BURNED
1030050480057EXTCOMB BOILER   COMMERCL-INSTUTNLDISTILLATE OIL   NO 4 OIL         1000 GALLONS BURNED
1030060180057EXTCOMB BOILER   COMMERCL-INSTUTNLNATURAL GAS      >100MMBTU/HR     MILLION CUBIC FEET BURNED
1030060280057EXTCOMB BOILER   COMMERCL-INSTUTNLNATURAL GAS      10-100MMBTU/HR   MILLION CUBIC FEET BURNED
1030060380057EXTCOMB BOILER   COMMERCL-INSTUTNLNATURAL GAS      <10MMBTU/HR      MILLION CUBIC FEET BURNED
3010050180057CHEMICAL MFG     CARBON BLACK      CHANNEL PROCESS
3010130280057CHEMICAL MFG     AGRICULTURAL CHEMNITRIC ACID      ABSRBR TAILGAS/NHTONS PURE ACID PRODUCED
3020010180057FOOD/AGRICULTURE ALFALFA DEHYDRATNGENERAL          GENERAL        **TONS MEAL PRODUCED
3020010280057FOOD/AGRICULTURE ALFALFA DEHYDRATICYCLONE AND DRYERPRIMARY          TONS RPODUCT
3020010380057FOOD/AGRICULTURE ALFALFA DEHYDRATIMEAL COLLECTOR   CYCLONE          TONS PRODUCT
3020010480057FOOD/AGRICULTURE ALFALFA DEHYDRATIPELLET COOLER    CYCLONE          TONS PRODUCT
3020020180057FOOD/AGRICULTURE COFFEE ROASTING   ROASTER          DIRECT FIRED     TONS GREEN BEANS
3020020280057FOOD/AGRICULTURE COFFEE ROASTING   ROASTER          INDIRECT FIRED   TONS GREEN BEANS
3020050180057FOOD/AGRICULTURE GRAIN ELEVATORS   TERMINAL ELEVATORSHIPING/RECEIVI**TONS GRAIN PROCESSED
3020050280057FOOD/AGRICULTURE GRAIN ELEVATORS   TERMINAL ELEVATORTRANSFER/CONVEY**TONS GRAIN PROCESSED
3050010580057PETRULEUM INDRY  ASPHALT ROOFING   FELT SAT OPERATN                  TONS SATURATED FELT PRODUCED
3050020180057PETROLEUM INDRY  ASPHALT CONCRETE  ROTARY DRYER     CONVENTIONAL PLNTTONS PRODUCED
3050020280057PETROLEUM INDRY  ASPHALT CONCRETE  HOT EV/SCN/BIN/MX                 TONS PRODUCED
3050020380057PETROLEUM INDRY  ASPHALT CONCRETE  STORAGE PILES                     TONS PROCESSED
3050160180057MINERAL PRODUCTS LIME MFG          PRIMARY CRUSHING                  TONS PROCESSED
3050160280057MINERAL PRODUCTS LIME MFG          SECOND CRUSH/SCRN                 TONS PROCESSED
3050160380057MINERAL PRODUCTS LIME MFG          CALCINING        VERTICAL KILN    TONS PROCESSED
3050160480057MINERAL PRODUCTS LIME MFG          CALCINING        ROTARY KILN      TONS PROCESSED
```

Figure PST2-2 - continued. Sample Output

(Page 9 of 9)

EIS/PS Test 3

Update the Emission Factor File and Description File Using EIS/PS Transactions and Produce an Emission Factor File Detailed Report

In this test run, the emission factor and description files are updated with EIS/PS emission factor file transactions using the cataloged procedure EPEME10 which executes PSREFTR (EP0030), the emission factor file transaction sort program, and PEMEFAC (EP0040), the emission factor file edit-maintenance program. A detailed report of the updated files is printed using the cataloged procedure EPRPE10 which executes PRPEFAC (EP0230), the emission factor file detailed report program.

Descriptions of PSREFTR (EP0030), PEMEFAC (EP0040), and PRPEFAC (EP0230) were given in Test 1. PSREFTR (EP0030) and PEMEFAC (EP0040) were also used in Test 2 to create the initial emission factor and description files. In this test, records are added to the files and records are changed and/or deleted.

Changing data in existing description file records requires a type-1, type-2, or type-3 transaction, depending on the data being changed. Any data field can be changed, except the key field (the SCC number). However, the control date field is changed by PEMEFAC (EP0040) only if the date of the transaction is greater than the control date of the description file record. Changing data in an existing emission factor file record requires a type-4 transaction. Any data can be changed, except the key fields (the SCC number, the origin, the source type, the pollutant ID, and the record date). However, the control date field of the record (not to be confused with the record date field, which contains the record's creation date) is changed by PEMEFAC (EP0040) only if the transaction date is greater than the control date.

Deleting an SCC from the description file and the emission factor file requires a type-1 delete transaction. This will cause the description record and all pollutant records associated with the specified SCC to be deleted from their respective files. Deleting a single pollutant record from the emission factor file requires a type-4 delete transaction.

The run stream for this test run contains the JCL needed to update the emission factor and description files and produce a detailed report of these files. This run stream is shown in Figure PST3-1. It does not show all the input EIS/PS emission factor file transactions in the run stream, but does show the necessary JCL. The sample output produced by this run stream is shown in Figure PST3-2.

First, the run stream executes the cataloged procedure EPEME10. Substitutable parameters are used to specify EPEMFC1 (created in Test 2) as the current emission factor file, EPDESC1 (created in Test 2) as the current description file, EPEMFC2 as the new emission factor file and EPDESC2 as the new description file. The user must supply the DD (data definition) information for the input EIS/PS emission factor file transactions in the SORT step and the option card file in the UPDATE step. The options specified in this step are 80062 and LIST.

Next, the cataloged procedure EPRPE10 is executed to produce a detailed report of the emission factor and description files. Substitutable parameters are used to specify EPEMFC2 as the input emission factor file and EPDESC2 as the input description file.

BEST DOCUMENT AVAILABLE

```
//PSTEST03 JOB    (ACCOUNTING INFO)
//*
//*   UPDATE THE TEST EMISSION FACTOR FILE AND DESCRIPTION FILE
//*   USING EIS/PS TRANSACTIONS AND PRODUCE AN EMISSION FACTOR
//*   DETAILED REPORT
//*
//TEST3A EXEC EPEMF10,
//      OLDEMFC=EPEMFC1,
//      OLDDESC=EPDESC1,
//      NEWEMFC=EPEMFC2,
//      NEWDESC=EPDESC2
//*
//*   UPDATE THE EMISSION FACTOR FILE AND DESCRIPTION FILE
//*
//SORT.INPUT DD *
1A20600197       80061INTERNAL COMBUST                   OTHER/NOT CLASS
1A20600198       80061INTERNAL COMBUST                   OTHER/NOT CLASS
1A20600199       80061INTERNAL COMBUST                   OTHER/NOT CLASS
2A20600199       80061                  THOUSAND OF GALLONS
2A20600198       80061                  THOUSAND OF GALLONS
1A90202020       80061SOLID WASTE       COMMERCIAL
2A90202020       80061                  1000 GALLONS
4A90202020S 0000080061
4A90202020S 3260180061                              327000
4A90202020S 8002480061                              294025
3A90202020       80061
4A30200101S 0000080061                                    000000
4A30200101LA0000080061                                    000000
4A30200101LA1110180061PARTICULATE                    67000      8503
4A30200201S 4240180061SULFUR DIOXIDE           90     0000
4A30200201S 4310180061HYDROCARBONS             90     0000
4A30200201S 4260280061NITROGEN DIOXIDE         90      050       131
4A30200201S 4210180061CARBON MONOXIDE          90     0060
4A30200201S 2210480061ARGON                    90      010      0001
4A30200201S 1110180061PARTICULATE              90     6609         1
4A30200201S 0000080061                                    120348
4A30200201L10000080061                                    120348
4A30200201L11110180061PARTICULATE              90     6609         1
4A30200201L12210480061ARGON                    90      010      0001
```

(Remainder of transactions omitted)

```
//UPDATE.OPTIONS DD *
80062       LIST
//TEST3B EXEC EPRPF10,
//      REGION1=100K,
//      TIME1='3,0',
//      EMFCFIL=EPEMFC2,
//      DESCFIL=EPDESC2
//*
//*   PRODUCE A DETAILED REPORT OF THE UPDATE FILES
//*
```

Figure PST3-1. Run Stream

```
                      EIS/PS EMISSION FACTOR FILE TRANSACTION SORT PROGRAM  -  DIAGNOSTIC REPORT                        PAGE     1

PROGRAM NAME: PSREFTR (EP0030)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF TRANSACTIONS READ:                            301
NUMBER OF TRANSACTIONS WRITTEN:                         302
NUMBER OF ERRORS DETECTED:                                0
NUMBER OF TRANSACTIONS REJECTED:                          0
```

Figure PST3-2. Sample Output (Page 1 of 11)

```
                    EIS/PS EMISSION FACTOR FILE EDIT-MAINTENANCE PROGRAM  -  DIAGNOSTIC REPORT                    PAGE      1

PROGRAM NAME: PEMEFAC (EP0040)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD

   CONTROL DATE IS 80062,  ERROR OPTION IS NOFLAGW,  LIST OPTION IS LIST



4C10100101F 0000080060                                        117070

          *** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED

4C10100102F 0000080060                                        117070

          *** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED

4C10100103F 0000080060                                        117070

          *** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED

4C10100104F 0000080060                                        117070

          *** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED

4C10100199F 0000080060                                        117070

          *** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED

4C10100201F 0000080060                                        130200

          *** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED

4C10100202F 0000080060                                        130200

          *** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED

4C10100203F 0000080060                                        130200

          *** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED

4C10100204F 0000080060                                        130200

          *** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED

4C10100205F 0000080060                                        130200
```

Figure PST3-2 - continued. Sample Output
(Page 2 of 11)

```
                        EIS/PS EMISSION FACTOR FILE EDIT-MAINTENANCE PROGRAM  -  DIAGNOSTIC REPORT                          PAGE    12

              *** PEMEFAC 031 ERROR - DELETE SPECIFIED FOR NONEXISTENT SCC EMF RECORD, CARD REJECTED

      NUMBER OF INPUT TRANSACTIONS READ:                         302
      NUMBER OF ABORT MESSAGES:                                    0
      NUMBER OF DISASTER MESSAGES:                                 0
      NUMBER OF ERROR MESSAGES:                                  133
      NUMBER OF WARNING MESSAGES:                                  0
      NUMBER OF CONDITIONAL MESSAGES:                              0
      NUMBER OF TRANSACTIONS REJECTED:                           133
      NUMBER OF SCC-DESCRIPTION FILE RECORDS READ:               102
      NUMBER OF SCC-DESCRIPTION FILE RECORDS WRITTEN:            101
      NUMBER OF SCC-EMISSION-FACTOR FILE RECORDS READ:           565
      NUMBER OF SCC-EMISSION-FACTOR FILE RECORDS WRITTEN:        638

      PROGRAM NAME: PEMEFAC (EP0040)
      REVISION LEVEL: 1-00
      LAST UPDATE #: P-1
      DATE INCORPORATED: FEBRUARY 1, 1980
```

Figure PST3-2 - continued. Sample Output
(Page 3 of 11)

```
                                        EIS/PS EMF UPDATE - TRANSACTION FILE LIST                               PAGE     1
00000000000000000000000000000000000000000000000000000000000000000000000000000000
1D10100101       80061
4C10100101F 0000080060                                   117070
4C10100102F 0000080060                                   117070
4C10100103F 0000080060                                   117070
4C10100104F 0000080060                                   117070
4C10100105F 0000080060                                   117070
4D10100105F 1110180061
4C10100106F 0000080060                                   117070
4D10100106F 4310180061
4C10100199F 0000080060                                   117070
4C10100201F 0000080060                                   130200
4C10100202F 0000080060                                   130200
4C10100203F 0000080060                                   130200
4C10100204F 0000080060                                   130200
4C10100205F 0000080060                                   130200
4C10100206F 0000080060                                   130200
4C10100207F 0000080060                                   130200
4C10100208F 0000080060                                   130200
4C10100209F 0000080060                                   130200
4C10100210F 0000080060                                   130200
4C10100211F 0000080060                                   130200
4C10100212F 0000080060                                   130200
4C10100217F 0000080060                                   130200
4C10100299F 0000080060                                   130200
4C10100301F 0000080060                                   065080
4C10100302F 0000080060                                   065080
4C10100303F 0000080060                                   065080
4C10100304F 0000080060                                   065080
4C10100305F 0000080060                                   065080
4C10100306F 0000080060                                   065080
4C10100307F 0000080060                                   065080
4C10100308F 0000080060                                   065080
4C10100309F 0000080060                                   065080
4C10100310F 0000080060                                   065080
4C10100311F 0000080060                                   065080
4C10100312F 0000080060                                   065080
4C10100313F 0000080060                                   065080
4C10100314F 0000080060                                   065080
4C10100315F 0000080060                                   065080
4C10100401F 0000080060                                      100
4C10100402F 0000080060                                      100
4C10100403F 0000080060                                      100
4C10100404F 0000080060                                      100
4C10100405F 0000080060                                      100
4C10100406F 0000080060                                      100
4C10100501F 0000080060                                      025
4C10100502F 0000080060                                      025
4C10100503F 0000080060                                      025
4C10100504F 0000080060                                      080
```

Figure PST3-2 - continued. Sample Output
(Page 4 of 11)

```
                                    EIS/PS EMF UPDATE - EMISSION FACTOR FILE INPUT LIST                                    PAGE    1
000000000000000080057      000001
101001011 000008005780057
101001011 111018005780057PARTICULATE FACTOR    A   000017000
101001011 421018005780057CO FACTOR                 000001000
101001011 424018005780057SO2 FACTOR             S  000038000
101001011 426028005780057NOX FACTOR                000018000
101001011 431018005780057HC FACTOR                 000000000
101001051 000008005780057
101001051 111018005780057PARTICULATE FACTOR    A   000017000
101001051 421018005780057CO FACTOR                 000001000
101001051 424018005780057SO2 FACTOR             S  000038000
101001051 426028005780057NOX FACTOR                000018000
101001051 431018005780057HC FACTOR                 000000030
101001061 000008005780057
101001061 111018005780057PARTICULATE FACTOR    A   000002000
101001061 421018005780057CO FACTOR                 000010000
101001061 424018005780057SO2 FACTOR             S  000038000
101001061 426028005780057NOX FACTOR                000006000
101001061 431018005780057HC FACTOR                 000000200
102002041 000008005780057
102002041 111018005780057PARTICULATE FACTOR    A   000013000
102002041 421018005780057CO FACTOR                 000002000
102002041 424018005780057SO2 FACTOR             S  000038000
102002041 426028005780057NOX FACTOR                000015000
102002041 431018005780057HC FACTOR                 000001000
102002051 000008005780057
102002051 111018005780057PARTICULATE FACTOR    A   000005000
102002051 421018005780057CO FACTOR                 000002000
102002051 424018005780057SO2 FACTOR             S  000038000
102002051 426028005780057NOX FACTOR                000015000
102002051 431018005780057HC FACTOR                 000001000
102002061 000008005780057
102002061 111018005780057PARTICULATE FACTOR    A   000005000
102002061 421018005780057CO FACTOR                 000002000
102002061 424018005780057SO2 FACTOR             S  000038000
102002061 426028005780057NOX FACTOR                000015000
102002061 431018005780057HC FACTOR                 000001000
102002071 000008005780057
102002071 111018005780057PARTICULATE FACTOR    A   000013000
102002071 421018005780057CO FACTOR                 000001000
102002071 424018005780057SO2 FACTOR             S  000038000
102002071 426028005780057NOX FACTOR                000030000
102002071 431018005780057HC FACTOR                 000000300
102004011 000008005780057
102004011 111018005780057PARTICULATE FACTOR    S   000012000
102004011 421018005780057CO FACTOR                 000005000
102004011 424018005780057SO2 FACTOR             S  000159000
102004011 426028005780057NOX FACTOR                000060000
102004011 431018005780057HC FACTOR                 000001000
102004021 000008005780057
```

Figure PST3-2 - continued. Sample Output
(Page 5 of 11)

```
                                   EIS/PS EMF UPDATE - SCC DESCRIPTION FILE INPUT LIST                         PAGE      1
0000000080057     000001
1010010180057EXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  PULVERIZED COAL  TONS BURNED
1010010580057EXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  <10MMBTU PULVIZ**TONS BURNED
1010010680057EXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  <10MMBTU STOKER**TONS BURNED
1020020480057EXTCOMB BOILER   INDUSTRIAL       BITUMINOUS COAL  SPREADER STOKER  TONS BURNED
1020020580057EXTCOMB BOILER   INDUSTRIAL       BITUMINOUS COAL  OF/UF >10MMBTU/HRTONS BURNED
1020020680057EXTCOMB BOILER   INDUSTRIAL       BITUMINOUS COAL  10-100MMBTU UFS**TONS BURNED
1020020780057EXTCOMB BOILER   INDUSTRIAL       BITUMINOUS COAL  10-100MMBTU PUL**TONS BURNED
1020040180057EXTCOMB BOILER   INDUSTRIAL       RESIDUAL OIL     NO 6 OIL         1000 GALLONS BURNED
1020040280057EXTCOMB BOILER   INDUSTRIAL       RESIDUAL OIL     10-100MMBTU/HR **1000 GALLONS BURNED
1020040380057EXTCOMB BOILER   INDUSTRIAL       RESIDUAL OIL     <10MMBTU/HR    **1000 GALLONS BURNED
1020040480057EXTCOMB BOILER   INDUSTRIAL       RESIDUAL OIL     NO 5 OIL         1000 GALLONS BURNED
1020050180057EXTCOMB BOILER   INDUSTRIAL       DISTILLATE OIL   NO 1 AND NO 2 OIL1000 GALLONS BURNED
1020050280057EXTCOMB BOILER   INDUSTRIAL       DISTILLATE OIL   10-100MMBTU/HR **1000 GALLONS BURNED
1020050380057EXTCOMB BOILER   INDUSTRIAL       DISTILLATE OIL   <10MMBTU/HR    **1000 GALLONS BURNED
1020050480057EXTCOMB BOILER   INDUSTRIAL       DISTILLATE OIL   NO 4 OIL         1000 GALLONS BURNED
1020060180057EXTCOMB BOILER   INDUSTRIAL       NATURAL GAS      >100MMBTU/HR     MILLION CUBIC FEET BURNED
1020060280057EXTCOMB BOILER   INDUSTRIAL       NATURAL GAS      10-100MMBTU/HR   MILLION CUBIC FEET BURNED
1020060380057EXTCOMB BOILER   INDUSTRIAL       NATURAL GAS      <10MMBTU/HR      MILLION CUBIC FEET BURNED
1020110280057EXTCOMB BOILER   INDUSTRIAL       BAGASSE          10-100MMBTU/HR **TONS BURNED
1020110380057EXTCOMB BOILER   INDUSTRIAL       BAGASSE          <10MMBTU/HR    **TONS BURNED
1030020980057EXTCOMB BOILER   COMMERCL-INSTUTNLBITUMINOUS COAL  SPREADER STOKER  TONS BURNED
1030040280057EXTCOMB BOILER   COMMERCL-INSTUTNLRESIDUAL OIL     10-100MMBTU/HR **1000 GALLONS BURNED
1030040380057EXTCOMB BOILER   COMMERCL-INSTUTNLRESIDUAL OIL     <10MMBTU/HR    **1000 GALLONS BURNED
1030040480057EXTCOMB BOILER   COMMERCL-INSTUTNLRESIDUAL OIL     NO 5 OIL         1000 GALLONS BURNED
1030050180057EXTCOMB BOILER   COMMERCL-INSTUTNLDISTILLATE OIL   NO 1 AND NO 2 OIL1000 GALLONS BURNED
1030050280057EXTCOMB BOILER   COMMERCL-INSTUTNLDISTILLATE OIL   10-100MMBTU/HR **1000 GALLONS BURNED
1030050380057EXTCOMB BOILER   COMMERCL-INSTUTNLDISTILLATE OIL   <10MMBTU/HR    **1000 GALLONS BURNED
1030050480057EXTCOMB BOILER   COMMERCL-INSTUTNLDISTILLATE OIL   NO 4 OIL         1000 GALLONS BURNED
1030060180057EXTCOMB BOILER   COMMERCL-INSTUTNLNATURAL GAS      >100MMBTU/HR     MILLION CUBIC FEET BURNED
1030060280057EXTCOMB BOILER   COMMERCL-INSTUTNLNATURAL GAS      10-100MMBTU/HR   MILLION CUBIC FEET BURNED
1030060380057EXTCOMB BOILER   COMMERCL-INSTUTNLNATURAL GAS      <10MMBTU/HR      MILLION CUBIC FEET BURNED
3010050180057CHEMICAL MFG     CARBON BLACK     CHANNEL PROCESS
3010130280057CHEMICAL MFG     AGRICULTURAL CHEMNITRIC ACID      ABSRBR TAILGAS/N*TONS PURE ACID PRODUCED
3020010180057FOOD/AGRICULTURE ALFALFA DEHYDRATNGENERAL          GENERAL        **TONS MEAL PRODUCED
3020010280057FOOD/AGRICULTURE ALFALFA DEHYDRATICYCLONE AND DRYERPRIMARY          TONS RPODUCT
3020010380057FOOD/AGRICULTURE ALFALFA DEHYDRATIMEAL COLLECTOR   CYCLONE          TONS PRODUCT
3020010480057FOOD/AGRICULTURE ALFALFA DEHYDRATIPELLET COOLER    CYCLONE          TONS PRODUCT
3020020180057FOOD/AGRICULTURE COFFEE ROASTING  ROASTER          DIRECT FIRED     TONS GREEN BEANS
3020020280057FOOD/AGRICULTURE COFFEE ROASTING  ROASTER          INDIRECT FIRED   TONS GREEN BEANS
3020050180057FOOD/AGRICULTURE GRAIN ELEVATORS  TERMINAL ELEVATORSHIPING/RECEIVI**TONS GRAIN PROCESSED
3020050280057FOOD/AGRICULTURE GRAIN ELEVATORS  TERMINAL ELEVATORTRANSFER/CONVEY**TONS GRAIN PROCESSED
3050010580057PETROLEUM INDRY  ASPHALT ROOFING  FELT SAT OPERATN                  TONS SATURATED FELT PRODUCED
3050020180057PETROLEUM INDRY  ASPHALT CONCRETE ROTARY DRYER     CONVENTIONAL PLNTTONS PRODUCED
3050020280057PETROLEUM INDRY  ASPHALT CONCRETE HOT EV/SCN/BIN/MX                 TONS PRODUCED
3050020380057PETROLEUM INDRY  ASPHALT CONCRETE STORAGE PILES                     TONS PROCESSED
3050160180057MINERAL PRODUCTS LIME MFG         PRIMARY CRUSHING                  TONS PROCESSED
3050160280057MINERAL PRODUCTS LIME MFG         SECOND CRUSH/SCRN                 TONS PROCESSED
3050160380057MINERAL PRODUCTS LIME MFG         CALCINING        VERTICAL KILN    TONS PROCESSED
3050160480057MINERAL PRODUCTS LIME MFG         CALCINING        ROTARY KILN      TONS PROCESSED
```

Figure PST3-2 - continued. Sample Output (Page 6 of 11)

```
                                    EIS/PS EMF UPDATE - EMISSION FACTOR FILE OUTPUT FILE                              PAGE      2
102004031 424018005780060SO2 FACTOR                S  000159000
102004031 426028005780060NOX FACTOR                   000060000
102004031 431018005780060HC FACTOR                    000001000
102004041 000008006080060                                        130
102004041 111018005780060PARTICULATE FACTOR           000010000
102004041 421018005780060CO FACTOR                    000005000
102004041 424018005780060SO2 FACTOR                S  000159000
102004041 426028005780060NOX FACTOR                   000060000
102004041 431018005780060HC FACTOR                    000001000
102005011 000008006080060                                        025
102005011 111018005780060PARTICULATE FACTOR           000002000
102005011 421018005780060CO FACTOR                    000005000
102005011 424018005780060SO2 FACTOR                S  000144000
102005011 426028005780060NOX FACTOR                   000022000
102005011 431018005780060HC FACTOR                    000001000
102005021 000008006080060                                        025
102005021 111018005780060PARTICULATE FACTOR           000002000
102005021 421018005780060CO FACTOR                    000005000
102005021 424018005780060SO2 FACTOR                S  000144000
102005021 426028005780060NOX FACTOR                   000022000
102005021 431018005780060HC FACTOR                    000001000
102005031 000008006080060                                        025
102005031 111018005780060PARTICULATE FACTOR           000002000
102005031 421018005780060CO FACTOR                    000005000
102005031 424018005780060SO2 FACTOR                S  000144000
102005031 426028005780060NOX FACTOR                   000022000
102005031 431018005780060HC FACTOR                    000001000
102005041 000008006080060                                        080
102005041 111018005780060PARTICULATE FACTOR           000007000
102005041 421018005780060CO FACTOR                    000005000
102005041 424018005780060SO2 FACTOR                S  000150000
102005041 426028005780060NOX FACTOR                   000022000
102005041 431018005780060HC FACTOR                    000001000
102006011 000008005780057
102006011 111018005780057PARTICULATE FACTOR           000010000
102006011 421018005780057CO FACTOR                    000017000
102006011 424018005780057SO2 FACTOR                   000000600
102006011 426028005780057NOX FACTOR                   000700000
102006011 431018005780057HC FACTOR                    000001000
102006021 000008005780057
102006021 111018005780057PARTICULATE FACTOR           000010000
102006021 421018005780057CO FACTOR                    000017000
102006021 424018005780057SO2 FACTOR                   000000600
102006021 426028005780057NOX FACTOR                   000180000
102006021 431018005780057HC FACTOR                    000003000
102006031 000008005780057
102006031 111018005780057PARTICULATE FACTOR           000010000
102006031 421018005780057CO FACTOR                    000020000
102006031 424018005780057SO2 FACTOR                   000000600
102006031 426028005780057NOX FACTOR                   000120000
```

Figure PST3-2 - continued. Sample Output
(Page 7 of 11)

```
                                        EIS/PS EMF UPDATE - SCC DESCRIPTION FILE OUTPUT LIST                                PAGE     1

000000008006280057000002
1010010580061EXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  <10MMBTU PULVIZ**TONS BURNED
1010010680061EXTCOMB BOILER   ELECTRIC GENERATNANTHRACITE COAL  <10MMBTU STOKER**TONS BURNED
1020020480060EXTCOMB BOILER   INDUSTRIAL       BITUMINOUS COAL  SPREADER STOKER  TONS BURNED
1020020580060EXTCOMB BOILER   INDUSTRIAL       BITUMINOUS COAL  OF/UF >10MMBTU/HRTONS BURNED
1020020680060EXTCOMB BOILER   INDUSTRIAL       BITUMINOUS COAL  10-100MMBTU UFS**TONS BURNED
1020020780060EXTCOMB BOILER   INDUSTRIAL       BITUMINOUS COAL  10-100MMBTU PUL**TONS BURNED
1020040180060EXTCOMB BOILER   INDUSTRIAL       RESIDUAL OIL     NO 6 OIL         1000 GALLONS BURNED
1020040280060EXTCOMB BOILER   INDUSTRIAL       RESIDUAL OIL     10-100MMBTU/HR **1000 GALLONS BURNED
1020040380060EXTCOMB BOILER   INDUSTRIAL       RESIDUAL OIL     <10MMBTU/HR    **1000 GALLONS BURNED
1020040480060EXTCOMB BOILER   INDUSTRIAL       RESIDUAL OIL     NO 5 OIL         1000 GALLONS BURNED
1020050180060EXTCOMB BOILER   INDUSTRIAL       DISTILLATE OIL   NO 1 AND NO 2 OIL1000 GALLONS BURNED
1020050280060EXTCOMB BOILER   INDUSTRIAL       DISTILLATE OIL   10-100MMBTU/HR **1000 GALLONS BURNED
1020050380060EXTCOMB BOILER   INDUSTRIAL       DISTILLATE OIL   <10MMBTU/HR    **1000 GALLONS BURNED
1020050480060EXTCOMB BOILER   INDUSTRIAL       DISTILLATE OIL   NO 4 OIL         1000 GALLONS BURNED
1020060180057EXTCOMB BOILER   INDUSTRIAL       NATURAL GAS      >100MMBTU/HR     MILLION CUBIC FEET BURNED
1020060280057EXTCOMB BOILER   INDUSTRIAL       NATURAL GAS      10-100MMBTU/HR   MILLION CUBIC FEET BURNED
1020060380057EXTCOMB BOILER   INDUSTRIAL       NATURAL GAS      <10MMBTU/HR      MILLION CUBIC FEET BURNED
1020110280057EXTCOMB BOILER   INDUSTRIAL       BAGASSE          10-100MMBTU/HR **TONS BURNED
1020110380057EXTCOMB BOILER   INDUSTRIAL       BAGASSE          <10MMBTU/HR    **TONS BURNED
1020230280061EXTCOMB BOILER   INDUSTRIAL       LIQ PETROLEUM GAS<10MMBTU/HR      TONS BURNED
1030020980060EXTCOMB BOILER   COMMERCL-INSTUTNLBITUMINOUS COAL  SPREADER STOKER  TONS BURNED
1030040280060EXTCOMB BOILER   COMMERCL-INSTUTNLRESIDUAL OIL     10-100MMBTU/HR **1000 GALLONS BURNED
1030040380060EXTCOMB BOILER   COMMERCL-INSTUTNLRESIDUAL OIL     <10MMBTU/HR    **1000 GALLONS BURNED
1030040480060EXTCOMB BOILER   COMMERCL-INSTUTNLRESIDUAL OIL     NO 5 OIL         1000 GALLONS BURNED
1030050180060EXTCOMB BOILER   COMMERCL-INSTUTNLDISTILLATE OIL   NO 1 AND NO 2 OIL1000 GALLONS BURNED
1030050280060EXTCOMB BOILER   COMMERCL-INSTUTNLDISTILLATE OIL   10-100MMBTU/HR **1000 GALLONS BURNED
1030050380060EXTCOMB BOILER   COMMERCL-INSTUTNLDISTILLATE OIL   <10MMBTU/HR    **1000 GALLONS BURNED
1030050480060EXTCOMB BOILER   COMMERCL-INSTUTNLDISTILLATE OIL   NO 4 OIL         1000 GALLONS BURNED
1030060180057EXTCOMB BOILER   COMMERCL-INSTUTNLNATURAL GAS      >100MMBTU/HR     MILLION CUBIC FEET BURNED
1030060280057EXTCOMB BOILER   COMMERCL-INSTUTNLNATURAL GAS      10-100MMBTU/HR   MILLION CUBIC FEET BURNED
1030060380057EXTCOMB BOILER   COMMERCL-INSTUTNLNATURAL GAS      <10MMBTU/HR      MILLION CUBIC FEET BURNED
2060019780061INTERNAL COMBUST                  OTHER/NOT CLASS                   THOUSAND OF GALLONS
2060019880061INTERNAL COMBUST                  OTHER/NOT CLASS                   THOUSAND OF GALLONS
2060019980061INTERNAL COMBUST                  OTHER/NOT CLASS                   THOUSAND OF GALLONS
3010050180061CHEMICAL MFG     CARBON BLACK     CHANNEL PROCESS
3010130280061CHEMICAL MFG     AGRICULTURAL CHEMNITRIC ACID      ABSRBR TAILGAS/NWTONS PURE ACID PRODUCED
3020010180061FOOD/AGRICULTURE ALFALFA DEHYDRATNGENERAL          GENERAL        **TONS MEAL PRODUCED
3020010280057FOOD/AGRICULTURE ALFALFA DEHYDRATICYCLONE AND DRYERPRIMARY          TONS RPODUCT
3020010380057FOOD/AGRICULTURE ALFALFA DEHYDRATIMEAL COLLECTOR   CYCLONE          TONS PRODUCT
3020010480057FOOD/AGRICULTURE ALFALFA DEHYDRATIPELLET COOLER    CYCLONE          TONS PRODUCT
3020020180061FOOD/AGRICULTURE COFFEE ROASTING  ROASTER          DIRECT FIRED     TONS GREEN BEANS
3020020280061FOOD/AGRICULTURE COFFEE ROASTING  ROASTER          INDIRECT FIRED   TONS GREEN BEANS
3020050180061FOOD/AGRICULTURE GRAIN ELEVATORS  TERMINAL ELEVATORSHIPING/RECEIVI**TONS GRAIN PROCESSED
3020050280061FOOD/AGRICULTURE GRAIN ELEVATORS  TERMINAL ELEVATORTRANSFER/CONVEY**TONS GRAIN PROCESSED
3050010580057PETROLEUM INDRY  ASPHALT ROOFING  FELT SAT OPERATN                  TONS SATURATED FELT PRODUCED
3050020180057PETROLEUM INDRY  ASPHALT CONCRETE ROTARY DRYER     CONVENTIONAL PLNTTONS PRODUCED
3050020280057PETROLEUM INDRY  ASPHALT CONCRETE HOT EV/SCN/BIN/MX                  TONS PRODUCED
3050020380057PETROLEUM INDRY  ASPHALT CONCRETE STORAGE PILES                      TONS PROCESSED
3050160180057MINERAL PRODUCTS LIME MFG         PRIMARY CRUSHING                   TONS PROCESSED
```

Figure PST3-2 - continued. Sample Output

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BEST DOCUMENT AVAILABLE

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                                                                                                PAGE      1
                   EMISSION FACTOR FILE DETAILED REPORT PROGRAM  -  DIAGNOSTIC REPORT

PROGRAM NAME: PRPEFAC (EP0230)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
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Figure PST3-2 - continued. Sample Output

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                                        EIS/PS EMISSION FACTOR FILE LISTING                                  PAGE    10


SCC 30200202 DATE 80061 CAT1 FOOD/AGRICULTURE  CAT2 COFFEE ROASTING   CAT3 ROASTER          CAT4 INDIRECT FIRED
                        UNITS  TONS GREEN BEANS                                                        0

    FEDERAL      POLL ID 00000                         DATE 80057  CNTL 80061  CONTENTS: ASH=    , SULFUR=
                 POLL ID 11101  PARTICULATE FACTOR     DATE 80057  EMF      4.200
                 POLL ID 11201  PARTICULATES           DATE 80061  EMF     23.150                                A/S S
                 POLL ID 42602  NOX FACTOR             DATE 80057  EMF      0.100
    STATE        POLL ID 00000                         DATE 80061  CNTL 80061  CONTENTS: ASH= 0.0, SULFUR=0.00
                 POLL ID 11101  PARTICULATE            DATE 80061  EMF      4.005  U/M 90
                 POLL ID 42101  CARBON MONOXIDE        DATE 80061  EMF      0.010  U/M 90
                 POLL ID 42202  ANTIMONY               DATE 80061  EMF      7.390  U/M 90
                 POLL ID 42602  NITROGEN DIOXIDE       DATE 80061  EMF      0.170  U/M 90
                 POLL ID 43101  HYDROCARBONS           DATE 80061  EMF      0.170  U/M 90
    LOCAL    1   POLL ID 00000                         DATE 80061  CNTL 80061  CONTENTS: ASH= 0.0, SULFUR=0.00
                 POLL ID 11101  PARTICULATE            DATE 80061  EMF      4.005  U/M 90
                 POLL ID 42101  CARBON MONOXIDE        DATE 80061  EMF      0.010  U/M 90
                 POLL ID 42602  NITROGEN DIOXIDE       DATE 80061  EMF      0.170  U/M 90
                 POLL ID 43101  HYDROCARBONS           DATE 80061  EMF      0.170  U/M 90

SCC 30200501 DATE 80061 CAT1 FOOD/AGRICULTURE  CAT2 GRAIN ELEVATORS   CAT3 TERMINAL ELEVATOR CAT4 SHIPING/RECEIVI**
                        UNITS  TONS GRAIN PROCESSED                                                    0

    FEDERAL      POLL ID 00000                         DATE 80057  CNTL 80061  CONTENTS: ASH=    , SULFUR=
                 POLL ID 11101  PARTICULATE FACTOR     DATE 80057  EMF      1.000
                 POLL ID 22104  ARGON                  DATE 80061  EMF      2.403
                 POLL ID 42101  CO FACTOR              DATE 80057  EMF      0.000
                 POLL ID 42401  SO2 FACTOR             DATE 80057  EMF      0.000
                 POLL ID 42602  NOX FACTOR             DATE 80057  EMF      0.000
                 POLL ID 43101  HC FACTOR              DATE 80057  EMF      0.000

SCC 30200502 DATE 80061 CAT1 FOOD/AGRICULTURE  CAT2 GRAIN ELEVATORS   CAT3 TERMINAL ELEVATOR CAT4 TRANSFER/CONVEY**
                        UNITS  TONS GRAIN PROCESSED                                                    0

    FEDERAL      POLL ID 00000                         DATE 80057  CNTL 80061  CONTENTS: ASH=    , SULFUR=
                 POLL ID 11101  PARTICULATE FACTOR     DATE 80057  EMF      2.000
                 POLL ID 22104  ARGON                  DATE 80061  EMF      2.403
                 POLL ID 42101  CO FACTOR              DATE 80057  EMF      0.000
                 POLL ID 42401  SO2 FACTOR             DATE 80057  EMF      0.000
                 POLL ID 42602  NOX FACTOR             DATE 80057  EMF      0.000
                 POLL ID 43101  HC FACTOR              DATE 80057  EMF      0.000

SCC 30500105 DATE 80057 CAT1 PETROLEUM INDRY   CAT2 ASPHALT ROOFING   CAT3 FELT SAT OPERATN  CAT4
                        UNITS  TONS SATURATED FELT PRODUCED

    FEDERAL      POLL ID 00000                         DATE 80057  CNTL 80057  CONTENTS: ASH=    , SULFUR=
                 POLL ID 11101  PARTICULATE FACTOR     DATE 80057  EMF      6.300
                 POLL ID 42101  CO FACTOR              DATE 80057  EMF      2.900
```

Figure PST3-2 - continued. Sample Output
(Page 10 of 11)

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                              EIS/PS EMISSION FACTOR FILE LISTING SUMMARY                              PAGE     1


HEADER RECORD CONTROL FIELDS

                 CONTROL DATE IS 80062, PREVICUS DATE IS 80057, GENERATION NUMBER IS      2

DESCRIPTION FILE RECORD COUNT:            101

EMISSION FACTOR FILE RECORD COUNT:        638

NUMBER OF SCCS IN LIST:                   100

NUMBER OF POLLUTANT ENTRIES IN LIST:      637
   FEDERAL POLLUTANT ENTRIES:             533
   STATE POLLUTANT ENTRIES:                37
   LOCAL POLLUTANT ENTRIES:                67

NUMBER OF ERRORS DETECTED:                  0

NUMBER OF PAGES IN REPORT:                 22


PROGRAM NAME: PRPEFAC (EP0230)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
```

Figure PST3-2 - continued. Sample Output
(Page 11 of 11)

EIS/PS Test 4

Create the Initial Master File Using NEDS Transactions

In this test run, an initial EIS/PS master file is created from NEDS transactions using the cataloged procedure EPFMM20 which executes PSRNETR (EP0050), the NEDS transaction sort program; PCENETR (EP0060), the NEDS to EIS/PS master file transaction conversion-edit program; PSREFIN (EP0090), the master file internal transaction pre-insertion sort program; PMSEFIN (EP0100), the master file internal transaction emission factor insertion program; PSRINTR (EP0110), the master file internal transaction sort program; and PFMMSTR (EP0120), the master file maintenance program.

PSRNETR (EP0050) sorts NEDS point source transactions (see Figure PST4-1 for the transaction formats) into the sequence required by PCENETR (EP0060). The fields of each transaction are sorted in the following order:

Record Position	Description	Sort Sequence
1 - 2	State	Ascending
3 - 6	County	Ascending
7 - 9	AQCR	Ascending
10 - 13	Plant ID	Ascending
14 - 15	Point ID	Ascending
18 - 25	SCC	Ascending
80	Card Number	Ascending
78	Action Code	*

All NEDS transactions must be sorted by PSRNETR (EP0050) before they can be converted to EIS/PS master file transactions.

PCENETR (EP0060) edits the input NEDS point source transactions and converts those that pass the edit criteria into EIS/PS internal transactions.

The input NEDS point source transactions include the P1 through P7 cards; i.e., seven different formats. The NEDS P1 transaction is converted into type 01, 02, and 03 internal transactions. The NEDS P2, P3, P4, and P5

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* Sort sequence is D (delete), A (add), C (change).

transactions are converted into type 11, 12, and 13 internal transactions. A NEDS P6 transaction is converted into type 21, 22, and 23 internal transactions. The NEDS P7 transaction can be converted into internal transaction types 24 and 25 or into either internal transaction type 04 or 14. Thus, all data fields from the NEDS transactions can be included in the EIS/PS master file. Refer to Figure PST4-1 for the NEDS point source transaction formats.

The plant, point, and SCC records in the master file can be added, changed, or deleted using NEDS transactions. In this test, the function of the transactions is to create (or add) records in the EIS/PS master file.

The action code on the transactions must be 'A' in order to create any master file records. To add a plant record to the master file, a valid P1 transaction is required. Note that a plant record must be present in the master file or the transaction to create a plant record must be in the input transaction file before any other records (point or SCC) will be accepted for that plant. Valid P2, P3, P4, and P5 transactions are required to add a point record to the master file. To add an SCC record, a valid P6 transaction is required. Before an SCC record can be added to the master file for a specific point, the point record must be present in the master file or the transactions to create the point record must be in the input transaction file.

To change a non-key field in a master file record, the user enters the appropriate transaction; i.e., a P1, P2, P3, P4, P5, P6, or P7 transaction, with the same key information as the master file record to be changed. Also, this transaction must have an action code of 'C' and contain the new information for the field to be changed. If these requirements are met, the non-blank, non-key fields of the transaction will replace the corresponding fields in the master file record. A change transaction with an asterisk in the first position of an optional (or non-key) field will cause that field in the master file to be flagged for deletion and change the first character in the field to an asterisk.

Similarly, the deletion of a master file record requires that the user enter a transaction with the same key information as the master file record to be deleted. However, the transaction must also have an action code of 'D' and the remaining fields should contain blanks. It should be noted that the records would be flagged for deletion but not physically deleted. When a record is flagged for deletion, all its subordinate records are also flagged for deletion.

The options in this program are used to determine if the year field in the NEDS transactions is valid, if the warning messages are to appear in the diagnostic report, and if the input NEDS transactions and output internal transactions should be printed. A two-digit year must be specified in card columns 1 and 2 of the option card in order to edit the year field in the NEDS transactions (the transaction year must not be greater than the option card year). If the warning messages are to be printed in the diagnostic report, the word FLAGW must appear in card columns 4 through 8; or, the warning-level messages will be suppressed. In order for the input NEDS transactions and output internal transactions to be printed, the word LIST must appear in columns 10 through 13 of the option card; otherwise, the listings will not be printed. A valid option card must be present in the run stream; failure to enter the option card will cause program execution to be terminated prematurely.

PSREFIN (EP0090) sorts EIS/PS internal transactions into the sequence required by PMSEFIN (EP0100). All master file internal transactions must be sorted by PSREFIN (EP0090) before they can be used for the insertion of emission factors.

PMSEFIN (EP0100) inserts emission factor information from the EIS/PS emission factor file into the type 21 and 23 internal transactions. The information to be inserted, as well as the conditions for insertion, are specified on the option card.

In order to insert information, PMSEFIN (EP0100) matches the type 23 internal transactions to the emission factor file records by SCC number, origin, source, and pollutant ID; and, it matches the type 21 internal transactions by SCC number, origin, and source to emission factor file records which have pollutant ID's of zero and contain the ash and sulfur contents for their respective SCC number. If an internal transaction has a source of 'H', (hand calculate) no insertion will be made into that transaction.

If a matching emission factor file record is found for an internal transaction, the information in that record is inserted into the appropriate fields of the transaction. If the user submits a type 23 internal transaction containing a pollutant ID of zero, PMSEFIN (EP0100) will create a type 23 internal transaction to correspond to each pollutant ID contained in the emission factor file for that SCC, origin, and source combination. No changes are made to any of the other input internal transactions.

The user may specify by means of an option card the transaction fields for insertion and may specify whether or not data from the emission factor file should override (i.e., replace) existing data in any of those fields. The user also specifies whether or not emission factor file data must satisfy a date criterion, whether or not the input internal transactions must satisfy a date criterion, whether or not the date of the internal transactions is to be replaced by the date of the emission factor information, and whether or not warning messages should be printed. All options are specified in fixed fields on the option card. See Figure PST4-2 for the format of the option card.

A transaction field is specified for insertion by coding its identifier and an 'I' in the appropriate option card field. The valid fields for insertion and their identifiers are as follows:

Field	Identifier
Sulfur Content	SUL
Ash Content	ASH
Emission Factor	EMISSION

The emission factor field is the default insertion field if no valid fields are specified for insertion.

If a valid transaction field has been specified for insertion, that field must be blank for any data to be inserted. If the user desires to insert data into a field regardless of its content, he can specify an override for that field by coding an 'O' in the appropriate option card field. If an override is specified for a particular field, any data in that field will be replaced with data from the matching emission factor file record.

A date criterion can be established for the emission factor file data by coding a date identifier of EDAT and a date value. The date value is expressed as a Julian date; that is, as a 5-character number, the first two digits of which represent the year, and the last three the day within the year. No insertion will be made into a field if the date of the matching emission factor file record is prior to the specified date. If no date criterion is specified, insertions will be made regardless of the date of the emission factor file data.

Likewise, a date criterion can be established for the input internal transactions by coding a date identifier of TDAT and a date value. No insertion will be made into any transaction with a date prior to this date. If no date criterion is specified, insertions into the transactions will be made regardless of their dates.

If the user desires to replace the date of each transaction with the date of the matching emission factor file record, he can do so by coding R in column 80 of the option card. Otherwise, no change will be made in the date of the trasnaction.

If FLAGW is coded in the warning message suppression field of the option card, all warning messages will be printed in the diagnostic report; if NOFLAGW is coded, no warning messages will be printed. If this field is left blank or improperly coded, a default of NOFLAGW is assumed.

PSRINTR (EP0110) sorts master file internal transactions into the sequence required by PFMMSTR (EP0120). All internal transactions must be sorted by PSRINTR (EP0110) before they can be used for creating or updating the master file.

PFMMSTR (EP0120) creates and maintains the EIS/PS master file which is a variable-length, sequential file. This file contains four types of records: plant, point, SCC, and comment.

The plant record contains general descriptive information pertaining to an individual plant (point source). Plants are defined by a plant ID within the county. These ID's are assigned sequentially beginning with 0001.

Each plant can contain up to 1,296 emission points. Each emission point is defined by a point record. NEDS point ID's are used to identify the points. The point record contains descriptive information on the point and its emissions, as well as detailed emission information for a maximum of 16 pollutants.

Each point record can have up to ten SCC records associated with it. More than one SCC record can be defined for an SCC by using the SCC sequence number. The SCC record contains descriptive information related to the SCC as well as detailed emission factor information for a maximum of 16 pollutants.

Comment records are related to emission points. Up to 99 comments with up to 999 lines (records) each can be used for a single point. The comment records are 'free form' and can contain permits and registration information as well as other comments desired for the point.

The options in PFMMSTR (EP0120) are used to determine if the warning messages are to be printed in the diagnostic report and if the listings of the input and output master file and of the internal transactions should be produced. A two-digit year may be specified in card columns 1 and 2. A value of FLAGW in card columns 4 through 8 will allow the warning messages to be printed. Otherwise, no warning messages will be printed. Similarly, a value of LIST in card columns 10 through 13 will produce all the listings. If the field is blank or invalid, the listings will not be produced.

The run stream for this test run contains the JCL needed to create an EIS/PS master file from NEDS transactions. This run stream is shown in Figure PST4-3. It does not show all the input NEDS transactions in the run stream, but does show the necessary JCL.

The cataloged procedure executed by this run stream is EPFMM20. Substitutable parameters are used to specify EPEMFC2 (created in Test 3) as the input emission factor file and EPMSTR1 as the newly created master file. The user must supply the DD (data definition) information for the input NEDS transaction file in the SORT1 step and the option card files in the CONVERT, INSERT, and UPDATE steps. The options specified in the CONVERT step are 80, FLAGW and LIST. For the INSERT step of the test run the options specified are: FLAGW, SUL IO, ASH IO, EMISSION IO, and R. And, the options specified in the UPDATE step are 80, FLAGW, and LIST. Since this test run creates the initial EIS/PS master file, there is obviously not an input master file to be accessed. This is why the old master file EPSOLMF must be a dummy file in the UPDATE step. Refer to Figure PST4-4 for the sample output produced by this test run.

NEDS TRANSACTION - P1 CARD

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 17	4	Numeric	City
18 - 19	2	Numeric	UTM Zone
20 - 21	2	Numeric	Year of Record
22 - 61	40	Alphanumeric	Name and Address
62 - 73	12	Alphanumeric	Contact
74	1	Alphabetic	Ownership Code
75 - 77	3		Unused
78	1	Alphabetic	Action Code
79	1	Alphabetic	'P'
80	1	Numeric	Card Number

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Figure PST4-1. NEDS Point Source Transaction Formats

NEDS TRANSACTION - P2 CARD

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 15	2	Alphanumeric	Point ID
16 - 17	2	Numeric	Year of Record
18 - 21	4	Numeric	SIC
22 - 23	2	Numeric	IPP
24 - 27	4	Numeric	UTM Horizontal Coordinate
28 - 32	5	Numeric	UTM Vertical Coordinate
33 - 36	4	Numeric	Stack Height
37 - 39	3	Numeric	Stack Diameter
40 - 43	4	Numeric	Stack Temperature
44 - 50	7	Numeric	Exhaust Flow Rate
51 - 54	4	Numeric	Plume Height
55	1		Unused
56 - 59	4	Numeric	Points with Common Stack
60 - 77	18		Unused
78	1	Alphabetic	Action Code
79	1	Alphabetic	'P'
80	1	Numeric	Card Number

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Figure PST4-1 - continued. NEDS Point Source Transaction Formats

NEDS TRANSACTION - P3 CARD

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 15	2	Alphanumeric	Point ID
16 - 17	2	Numeric	Year of Record
18 - 22	5	Numeric	Boiler Design Capacity
23 - 25	3	Numeric	Primary Control Equipment - TSP
26 - 28	3	Numeric	Secondary Control Equipment - TSP
29 - 31	3	Numeric	Primary Control Equipment - SO_2
32 - 34	3	Numeric	Secondary Control Equipment - SO_2
35 - 37	3	Numeric	Primary Control Equipment - NO_x
38 - 40	3	Numeric	Secondary Control Equipment - NO_x
41 - 43	3	Numeric	Primary Control Equipment - HC
44 - 46	3	Numeric	Secondary Control Equipment - HC
47 - 49	3	Numeric	Primary Control Equipment - CO

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Figure PST4-1 - continued. NEDS Point Source Transaction Formats

NEDS TRANSACTION - P3 CARD - continued.

Column #	Field Length	Data Type	Description
50 - 52	3	Numeric	Secondary Control Equipment - CO
53 - 55	3	Numeric	Estimated Control Efficiency - TSP
56 - 58	3	Numeric	Estimated Control Efficiency - SO_2
59 - 61	3	Numeric	Estimated Control Efficiency - NO_x
62 - 64	3	Numeric	Estimated Control Efficiency - HC
65 - 67	3	Numeric	Estimated Control Efficiency - CO
68 - 77	10		Unused
78	1	Alphabetic	Action Code
79	1	Alphabetic	'P'
80	1	Numeric	Card Number

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Figure PST4-1 - continued. NEDS Point Source Transaction Formats

NEDS TRANSACTION - P4 CARD

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 15	2	Alphanumeric	Point ID
16 - 17	2	Numeric	Year of Record
18 - 25	8	Numeric	Percentage Thruput
26 - 30	5	Numeric	Operating Rate
31 - 37	7	Numeric	Emissions Estimate - TSP
38 - 44	7	Numeric	Emissions Estimate - SO_2
45 - 51	7	Numeric	Emissions Estimate - NO_x
52 - 58	7	Numeric	Emissions Estimate - HC
59 - 65	7	Numeric	Emissions Estimate - CO
66	1	Numeric	Estimation Method - TSP
67	1	Numeric	Estimation Method - SO_2
68	1	Numeric	Estimation Method - NO_x
69	1	Numeric	Estimation Method - HC
70	1	Numeric	Estimation Method - CO
71 - 73	3	Numeric	Space Heat
74 - 77	4		Unused
78	1	Alphabetic	Action Code
79	1	Alphabetic	'P'
80	1	Numeric	Card Number

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Figure PST4-1 - continued. NEDS Point Source Transaction Formats

NEDS TRANSACTION - P5 CARD

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 15	2	Alphanumeric	Point ID
16 - 17	2	Numeric	Year of Record
18 - 24	7	Numeric	Allowable Emission - TSP
25 - 31	7	Numeric	Allowable Emission - SO_2
32 - 38	7	Numeric	Allowable Emission - NO_x
39 - 45	7	Numeric	Allowable Emission - HC
46 - 52	7	Numeric	Allowable Emission - CO
53	1	Numeric	Compliance Status
54 - 57	4	Numeric	Compliance Schedule
58 - 63	6	Numeric	Compliance Update
64	1	Numeric	ECAP
65 - 76	12	Numeric	Control Regulations
77	1		Unused
78	1	Alphabetic	Action Code
79	1	Alphabetic	'P'
80	1	Numeric	Card Number

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Figure PST4-1 - continued. NEDS Point Source Transaction Formats

NEDS TRANSACTION - P6 CARD

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 15	2	Alphanumeric	Point ID
16 - 17	2	Numeric	Year of Record
18 - 25	8	Numeric	SCC
26 - 32	7	Numeric	Fuel Process Rate
33 - 39	7	Numeric	Maximum Design Rate
40 - 42	3	Numeric	Sulfur Content
43 - 45	3	Numeric	Ash Content
46 - 50	5	Numeric	Heat Content
51 - 70	20	Alphanumeric	Source Description
71	1	Alphabetic	Source Code
72	1	Numeric	Confidentiality
73 - 77	5		Unused
78	1	Alphabetic	Action Code
79	1	Alphabetic	'P'
80	1	Numeric	Card Number

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Figure PST4-1 - continued. NEDS Point Source Transaction Formats

NEDS TRANSACTION - P7 CARD

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 15	2	Alphanumeric	Point ID
16 - 17	2	Numeric	Year of Record
18 - 25	8	Numeric	SCC
26 - 77	52	Alphanumeric	Comment
78	1	Alphabetic	Action Code
79	1	Alphabetic	'P'
80	1	Numeric	Card Number

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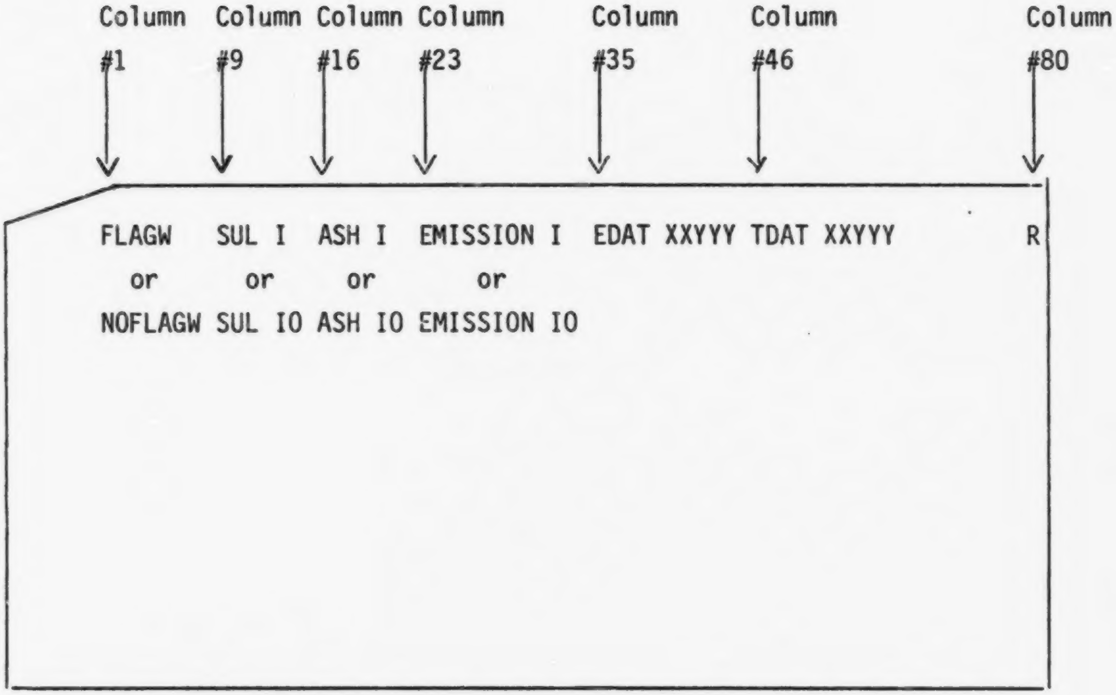
Figure PST4-1 - continued. NEDS Point Source Transaction Formats


Column #1
Column #9
Column #16
Column #23
Column #35
Column #46
Column #80
FLAGW or NOFLAGW
SUL I or SUL IO
ASH I or ASH IO
EMISSION I or EMISSION IO
EDAT XXYYY
TDAT XXYYY
R

Note: 1. XX denotes the year; YYY the Julian date

2. Each field must contain one of the valid values indicated for it or be blank.

Figure PST4-2. Option Card Format

```
//PSTEST04 JOB     (ACCOUNTING INFO)
//*
//*    CREATE A MASTER FILE FROM NEDS TRANSACTIONS
//*
//TEST4A EXEC EPEMM20,
//        EMFCFIL=EPEMFC2,
//        NEWMSTR=EPMSTR1,
//        WORKSPC='30,20'
//*
//*    CREATE THE INITIAL MASTER FILE
//*
//SORT1.INPUT DD *
0100010010001                                                                AP1
6422229991 23XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXAP1
1010000241000001XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX1512XXXXXXXXXXXXXXXXAP2
1010000241000179XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXAP3
1010000241000179XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXAP4
1010000241000179XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXAP5
1010000241000195XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXAP6
1010000241000195XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXEFG
1010000241000195
1000000241001111                                       8889                  AP2
10100002410015 83      010010000010000                 01                    AP2
10100002410015 83      010097500010000                 01        22222       AP4
10100002410015 83                                                22222       AP4
10100002410015 8011234497                                              3     AP6
10100002410015880                                    8901880101              AP5
10100002410015A80777777777777777777777777777777777777599999990995             AP5
10100002410015A80             88888888888888888888888888888888888             CP4
10100002410015A80             0444444444444444444444404444444444444           CP4
10100002410015A80             0444440444444044404440444044440444444           CP4

08000824080001   1875SAINT AGNES MILLS REEDSVILLE           R SMITH     P   AP1
080008240800101772121  1228004660018010036000012460000 0000                  AP2
080008240800101772121  9228404660018010036000012460000 0000                  AP2
0800082408001017700000800000000000000000000000000000000000000000000          AP3
0800082408001017725252525175520000010000000500000000800000000000033333000    AP4
0800082408001017700000002          9999999999999999999991    7502051         AP5
0800082408001017410200503000013300000300050000001081720036.CIGAR MFG   P1    AP6
```

(Remainder of transactions omitted)

```
//CONVERT.OPTIONS DD *
80 FLAGS LIST
//INSERT.OPTIONS DD *
FLAGS    SUB TO ASH 10 EMISSION 10                                           R
//UPDATE.EPSDLMF DD DUMMY
//UPDATE.OPTIONS DD *
80 FLAGS LIST
```

Figure PST4-3. Run Stream

```
                        EIS/PS NEDS TRANSACTION SORT PROGRAM  -  DIAGNOSTIC REPORT                        PAGE      1

 PROGRAM NAME: PSRNETR (EP0050)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS:      322
NUMBER OF OUTPUT TRANSACTIONS:      322
```

Figure PST4-4. Sample Output

(Page 1 of 12)

```
                              NEDS TO EIS/PS CONVERSION-EDIT PROGRAM  -  DIAGNOSTIC REPORT                          PAGE      1

PROGRAM NAME: PCENETR (EP0060)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD

   CONTROL DATE IS 80   ,  ERROR OPTION IS FLAGW  ,  LIST OPTION IS LIST



BEB  EB EB  EBE                                                              BBB
          *** PCENETR 001 ERROR - COLUMN 01 - INVALID STATE CODE, CARD REJECTED
          *** PCENETR 002 ERROR - COLUMN 03 - NON-NUMERIC COUNTY CODE, CARD REJECTED
          *** PCENETR 003 ERROR - COLUMN 07 - INVALID AQCR CODE, CARD REJECTED
          *** PCENETR 004 ERROR - COLUMN 79 - INVALID ACTION TYPE, CARD REJECTED
          *** PCENETR 005 ERROR - COLUMN 78 - INVALID CARD TYPE, CARD REJECTED
          *** PCENETR 006 ERROR - COLUMN 80 - INVALID CARD NUMBER, CARD REJECTED
          *** PCENETR 007 ERROR - COLUMN 10 - INVALID PLANT ID, CARD REJECTED
          *** PCENETR 014 ERROR - COLUMN 14 - INVALID POINT ID, CARD REJECTED
          *** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED
          *** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED
          *** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED
          *** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED

BEB  EB EB  EBE                                                              BBB
          *** PCENETR 001 ERROR - COLUMN 01 - INVALID STATE CODE, CARD REJECTED
          *** PCENETR 002 ERROR - COLUMN 03 - NON-NUMERIC COUNTY CODE, CARD REJECTED
          *** PCENETR 003 ERROR - COLUMN 07 - INVALID AQCR CODE, CARD REJECTED
          *** PCENETR 004 ERROR - COLUMN 79 - INVALID ACTION TYPE, CARD REJECTED
          *** PCENETR 005 ERROR - COLUMN 78 - INVALID CARD TYPE, CARD REJECTED
          *** PCENETR 006 ERROR - COLUMN 80 - INVALID CARD NUMBER, CARD REJECTED
          *** PCENETR 007 ERROR - COLUMN 10 - INVALID PLANT ID, CARD REJECTED
          *** PCENETR 014 ERROR - COLUMN 14 - INVALID POINT ID, CARD REJECTED
          *** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED
          *** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED
          *** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED
          *** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED

64????9991 23XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXAP1
BEB  EB EB  E    BEBE                                                    B
          *** PCENETR 001 ERROR - COLUMN 01 - INVALID STATE CODE, CARD REJECTED
          *** PCENETR 002 ERROR - COLUMN 03 - NON-NUMERIC COUNTY CODE, CARD REJECTED
```

Figure PST4-4 - continued. Sample Output
(Page 2 of 12)

```
                    NEDS TO EIS/PS CONVERSION-EDIT PROGRAM  -  DIAGNOSTIC REPORT                    PAGE    15

       *** PCENETR 021 CONDITIONAL - COLUMN 37 - STACK DIAMETER EXCEEDS (0.2 * STACK HEIGHT)

3400800530001     1772GRANITEVILLE CO STEVENS STEAM STATION   MR  MCKEOWN     AP1
                                                                          B
       *** PCENETR 012 CONDITIONAL - COLUMN 74 - INVALID OWNERSHIP CODE

340080053000101724961003452371920100050055000294600000                        AP2
                          B    E     B E
       *** PCENETR 018 CONDITIONAL - COLUMN 28 - UTM-VERTICAL COORDINATE OUT OF RANGE
       *** PCENETR 021 CONDITIONAL - COLUMN 37 - STACK DIAMETER EXCEEDS (0.2 * STACK HEIGHT)

NUMBER OF TRANSACTIONS READ:                      322
NUMBER OF INTERNAL TRANSACTIONS WRITTEN:          576
NUMBER OF TRANSACTIONS REJECTED:                   44
NUMBER OF ABORT MESSAGES:                           0
NUMBER OF ERROR MESSAGES:                         177
NUMBER OF CONDITIONAL MESSAGES:                   149
NUMBER OF WARNING MESSAGES:                         0

PROGRAM NAME: PCENETR (EP0060)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
```

Figure PST4-4 - continued. Sample Output
(Page 3 of 12)

BEST DOCUMENT AVAILABLE

```
                                       INPUT NEDS POINT SOURCE MASTER FILE TRANSACTIONS                                      PAGE      1

64???79991 23XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXAP1
0100010010001                                                                                     AP1
0800082408001         1875SAINT AGNES HILLS REEDSVILLE                        R SMITH        P    AP1
080008240800101772121  92289046600180100360000124600000 0000                                      AP2
080008240800101772121  12280046600180100360000124600000 0000                                      AP2
08000824080010177000000800000000000000000000000000000000000000000000                              AP3
0800082408001017725252525175520000010000050000000600000000000033333000                            AP4
080008240800101770000002           99999999999999999999991     7502051                            AP5
0800082408001017410200503000013300000300500000001081720036.CIGAR MFG    P1                        AP6
0800082408002         1877GENERAL INC TAYLOR                              R.A.LJONES  P           AP1
080008240800201770142  12180042900070080080000036000000 0000                                      AP2
08000824080020177000020000000000000000000210000000000000000000990000                              AP3
0800082408002017725252525086520000000000000000000001000000000000000033333000                      AP4
080008240800201770000001           99999999999999999999991     7710311                            AP5
08000824080020174102005030000017000001000000000108                           B1                   AP6
0800082408005         1877GENERAL INC TAYLOR                              R.A.LJONES  P           AP1
080008240800501770142  12180042900070080080         0000 0000                                     AP2
08000824080050177000020210000000000000000000000000000990000000000000                              AP3
0800082408005017725252525085520000000000000000000001000000000000000033333000                      AP4
08000824080050177                  99999999999999999999994     7601221                            AP5
0800082408005017610200503000001700000100000000001081750001                   B2                   AP6
080008024080008060187 4AG SER, ADMIN AG LIMEST PLT                      T 1 QUEEN                 AP1
08000802408000081771422  06420060300000000008000000000030 0000                                    AP2
08000802408000081770000000300000000000000000000000000006000000000000000                           AP3
08000802408000081770038382088535000003100000000000000000000000000000030000000                     AP4
08000802408000 8177        000000000000000000000000000000007           1                          AP5
0800080240800081743050160100050000000800000000000000          LIMEST CRUSH P1                     AP6
080008024080010060  75BETTEROADS ASPHALT PLANT 2 RD 2 KM 139.6R TORRES     P                      AP1
0800080240800101762951030760005560030036022500408000000 0000                                      AP2
080008024080010176000000009003000000000000000000000000008500000000000000                          AP3
0800080240800101762525252508551000032800000000000000000000000000000034440800                      AP4
080008024080010176                 99999999999999999999991     7607291                            AP5
080008024080010174305002010125000020000000000000000                          P1                   AP6
080008024080010174390000810000612              00000135                      C1                   AP6
080008024080010277 2951  076000556000000000800000000020 0000                                      AP2
080008024080010277000000002000000000000000000000000000008500000000000000                          AP3
0800080240800102772525252508551000090800000000000000000000000000000030000000                      AP4
080008024080010277                 99999999999999999999991         1                              AP5
08000802408001027430500202012500002000000000000000000                        P1                   AP6
0800802408002         1971BEST CONTRACTIN CORP.RD.2 KM.139.6      J.ANGLERO   P                   AP1
080008024080020177 3273  0773005470000000006000000000030 0000                                     AP2
080008024080020177000000000000000000000000000000000000000000000000000                             AP3
0800080240800201772525252508552000000000000000000000000000000000000077777000                      AP4
08000802408002017700000090000000000000000000000000000007           1                              AP5
08000802408002017430502001000872800042000000000000000012710182               P1                   AP6
080008024080030060  75CENTRAL CITY CARS                                 J M WHYTEEZ S             AP1
```

Figure PST4-4 - continued. Sample Output

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BEST DOCUMENT AVAILABLE

```
                           EDITED EIS/PS MASTER FILE TRANSACTIONS (INTERNAL FORMAT)                             PAGE     1
0800082400800000100000000000000000000011080008240800175000                      18PR SMITH                            01A
0800082400800000100000000000000000000021080008240800175000SAINT AGNES MILLS REEDSVILLE                                02A
0800082400800000100000000000000000000031080008240800175000                                                            03A
080008240080000010001100000000000000011108000824080017700001    2121  922890466                                       11A
080008240080000010001100000000000000012108000824080017700001001801003600001246      00000000                           12A
080008240080000010001100000000000000011108000824080017700001    2121  122800466                                       11A
080008240080000010001100000000000000012108000824080017700001001801003600001246      000000001   7502051               12A
08000824008000001000110000000000000001310800082408001770000111101                               0000002               13A
08000824008000001000110000000000000001310800082408001770000142401                               9999999               13A
08000824008000001000110000000000000001310800082408001770000143101                               9999999               13A
08000824008000001000110000000000000001310800082408001770000142101                               9999999               13A
0800082400800000100012102005030000000211080008240800174000011020050300       0000133000003005000000108F               21A
0800082400800000100012102005030000000221080008240800174000011020050300 1P1720036.CIGAR MFG                             22A
0800082400800000100012102005030000000231080008240800174000011020050300F 00000                                         23A
0800082400800000200000000000000000000011080008240800277000                      18PR.A.LJONES                         01A
0800082400800000200000000000000000000021080008240800277000GENERAL INC TAYLOR                                          02A
0800082400800000200000000000000000000031080008240800277000                                                            03A
080008240080000820001100000000000000011108000824080027700001    0142  121800429            252525250865200002000      11A
080008240080000020001100000000000000012108000824080027700001000700800800000360      000000001   7710311               12A
08000824008000002000110000000000000001310800082408002770000111101        0000000000000000       0000001 3             13A
08000824008000002000110000000000000001310800082408002770000142602        0000000000000000               3             13A
08000824008000002000110000000000000001310800082408002770000142401        0000000000000001       9999999 3             13A
08000824008000002000110000000000000001310800082408002770000143101        0210009900000000       9999999 3             13A
08000824008000002000110000000000000001310800082408002770000142101        0000000000000000       9999999 3             13A
0800082400800000200012102005030000000211080008240800274000011020050300       0000170000010000000000108F               21A
08000824008000002000121020050300000002210800082408002740000110200503001B                                              22A
0800082400800000200012102005030000000231080008240800274000011020050300F 00000                                         23A
0800082400800000500000000000000000000011080008240800577000                      18PR.A.LJONES                         01A
0800082400800000500000000000000000000021080008240800577000GENERAL INC TAYLOR                                          02A
0800082400800000500000000000000000000031080008240800577000                                                            03A
080008240080000050001100000000000000011108000824080057700001    0142  121800429            252525250855200002000      11A
08000824008000005000110000000000000001210800082408005770000100070080080             000000004   7601221               12A
08000824008000005000110000000000000001310800082408005770000111101        0210009900000000               3             13A
08000824008000005000110000000000000001310800082408005770000142602        0000000000000000               3             13A
08000824008000005000110000000000000001310800082408005770000142401        0000000000000001       9999999 3             13A
08000824008000005000110000000000000001310800082408005770000143101        0000000000000000       9999999 3             13A
08000824008000005000110000000000000001310800082408005770000142101        0000000000000000       9999999 3             13A
0800082400800000500012102005030000000211080008240800576000011020050300       0000170000010000000000108F               21A
0800082400800000500012102005030000000221080008240800576000011020050300261750001                                       22A
0800082400800000500012102005030000000231080008240800576000011020050300F 00000                                         23A
0800802400800000000000000000000000000011080080240800074000                      806018 T T QUEEN                      01A
0800802400800000000000000000000000000021080080240800074000AG SERV ADMIN AG LIMEST PLT                                 02A
0800802400800000000000000000000000000031080080240800074000                                                            03A
080080240080000000801100000000000000011108008024080007700081    1422  064200603            003838208853500000000      11A
080080240080000000801100000000000000012108008024080007700081000000000800000000      003000007         1               12A
08008024008000000080110000000000000001310800802408000770008111101        0030006000000031               3             13A
08008024008000000080110000000000000001310800802408000770008142602        0000000000000000       0000000 0             13A
08008024008000000080110000000000000001310800802408000770008142401        0000000000000000       0000000 0             13A
```

Figure PST4-4 - continued. Sample Output

(Page 5 of 12)

```
                EIS/PS MASTER FILE INTERNAL TRANSACTION PRE-INSERTION SORT PROGRAM  -  DIAGNOSTIC REPORT              PAGE 1

PROGRAM NAME: PSREFIN (EPU090)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF INPUT TRANSACTIONS:          576
NUMBER OF OUTPUT TRANSACTIONS:         576
```

Figure PST4-4 - continued. Sample Output
(Page 6 of 12)

```
                                   MASTER FILE INTERNAL TRANSACTION EMISSION FACTOR INSERTION PROGRAM                                    PAGE


PROGRAM NAME: PMSEFIN (EP0100)
REVISION LEVEL:  1-00
LAST UPDATE #:    P-1
DATE INCORPORATED:  FEBRUARY 1, 1980


OPTIONS IN EFFECT:  FLAGW

         FIELDS SELECTED FOR INSERTIONS:  SUL  ASH  EMISSION

         FIELDS TO BE OVERRIDDEN:  SUL  ASH  EMISSION


 SULFUR I  D  ASH I  D  EMISSION FACTOR I  D                                      DATE: EMISSION FACTOR   N    TRANSACTION   N


08008024008000003000042102000810000000211080080240800374000041020008100      0085090      00002500008F                 21A
         *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

08008024008000003000042102000810000000231080080240800374000041020008100F 00000                                          23A
         *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

080080240080000030000321020008200000000211080080240800374000031020008200      0013970      00002500008F                 21A
         *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

080080240080000030000221020008200000000211080080240800374000021020008200      0013970      00002500008F                 21A
         *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

080080240080000030000121020008200000000211080080240800374000011020008200      0013970      00002500008F                 21A
         *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

080080240080000030000121020008200000000231080080240800374000011020008200F 00000                                         23A
         *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD
```

Figure PST4-4 - continued. Sample Output
(Page 7 of 12)

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```
                    MASTER FILE INTERNAL TRANSACTION EMISSION FACTOR INSERTION PROGRAM                       PAGE   3


  SULFUR I  0  ASH I  0  EMISSION FACTOR I  0                                DATE: EMISSION FACTOR   N    TRANSACTION   N


 NUMBER OF INPUT TRANSACTIONS:                    576
 NUMBER OF EMISSION FACTOR RECORDS READ:          475
 NUMBER OF INSERTIONS MADE:                        25
 NUMBER OF OUTPUT TRANSACTIONS:                   720
 NUMBER OF 23 TRANSACTIONS CREATED:               184
 NUMBER OF WARNING MESSAGES:                       14
 NUMBER OF CONDITIONAL MESSAGES:                    0
 NUMBER OF ERROR MESSAGES:                          0
 NUMBER OF ABORT MESSAGES:                          0
 NUMBER OF DISASTER MESSAGES:                       0
```

- -

```
                          EIS/PS MASTER FILE INTERNAL TRANSACTION SORT PROGRAM                  PAGE 1


  PROGRAM NAME: PSRINTR (EP0110)
  REVISION LEVEL: 1-00
  LAST UPDATE #: P-1
  DATE INCORPORATED: FEBRUARY 1, 1980


  NUMBER OF INPUT TRANSACTIONS:     720
  NUMBER OF OUTPUT TRANSACTIONS:    720
```

Figure PST4-4 - continued. Sample Output
(Page 8 of 12)

```
                         EIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSSAGES                                   PAGE     1

PROGRAM NAME: PFMMSTR (EP0120)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD

   CONTROL DATE IS 80   ,  ERROR OPTION IS FLAGW  ,  LIST OPTION IS LIST



080008240080000010001100000000000000000111080000824080017700001   2121  122800466                                  11A
                                   *** PFMMSTR 034 ERROR - DUPLICATE TRANSACTION - CARD REJECTED

08000824008000001000110000000000000000012108000082408001770000100180100360000124 6     000000001    7502051          12A
                                   *** PFMMSTR 034 ERROR - DUPLICATE TRANSACTION - CARD REJECTED

08012024008000003000110000000000000000000  080120240800377000101          068900782                       00000
                                   *** PFMMSTR 019 ERROR - NEW MASTER RECORD INCOMPLETE, NOT WRITTEN

10000002401000001010110000000000000000121100000024100111000 11                     8889                             12A
                                   *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER
                                   *** PFMMSTR 026 ERROR - ATTEMPT TO ADD POINT TO NONEXISTANT PLANT

10100002401000001051110000000000000001321010000241001800005A11101                0444444          4            13C
                                   *** PFMMSTR 007 ERROR - TRANSACTION NOT ADD, BUT NO MASTER ON FILE, CARD REJECTED

10100002401000001051110000000000000001321010000241001800005A42602                0444444          4            13C
                                   *** PFMMSTR 007 ERROR - TRANSACTION NOT ADD, BUT NO MASTER ON FILE, CARD REJECTED

10100002401000001051110000000000000001321010000241001800005A43101                0444444                       13C
                                   *** PFMMSTR 007 ERROR - TRANSACTION NOT ADD, BUT NO MASTER ON FILE, CARD REJECTED

10100002401000001051110000000000000001321010000241001800005A42401                0444444                       13C
                                   *** PFMMSTR 007 ERROR - TRANSACTION NOT ADD, BUT NO MASTER ON FILE, CARD REJECTED

10100002401000001051110000000000000001321010000241001800005A42101                0444444                       13C
                                   *** PFMMSTR 007 ERROR - TRANSACTION NOT ADD, BUT NO MASTER ON FILE, CARD REJECTED

18004022400000005000810000000000000000000  160040224000575000106   9661  457841887          2525252524752
                                   *** PFMMSTR 019 ERROR - NEW MASTER RECORD INCOMPLETE, NOT WRITTEN

180040224000000050006240300101000000000000  16004022400058005720840300 10100       0000165                2PGAS UNLOADING
                                   *** PFMMSTR 020 ERROR - POINT INCOMPLETE, SCC NOT WRITTEN TO OUTPUT MASTER  FILE
```

Figure PST4-4 - continued. Sample Output
(Page 9 of 12)

```
                         EIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSSAGES                  PAGE      3

NUMBER OF INPUT TRANSACTIONS READ                         720
NUMBER OF DISASTERS DETECTED                                0
NUMBER OF ABORTS DETECTED                                   0
NUMBER OF ERRORS DETECTED                                  13
NUMBER OF CONDITIONALS DETECTED                             0
NUMBER OF WARNINGS DETECTED                                 0
NUMBER OF TRANSACTIONS REJECTED                             8
NUMBER OF POINT SOURCE FILE RECORDS READ IN                 0
NUMBER OF POINT SOURCE FILE RECORDS WRITTEN OUT           123
```

Figure PST4-4 - continued. Sample Output

(Page 10 of 12)

```
                              EIS FILE MAINTENANCE PROGRAM - TRANSACTION LISTING                             PAGE    1
0800082400800000100000000000000000000011080008240800175000                    18PR SMITH                            01A
0800082400800000100000000000000000000021080008240800175000SAINT AGNES MILLS REEDSVILLE                              02A
0800082400800000100000000000000000000031080008240800175000                                                          03A
080008240080000010001100000000000000011108000824080017700001   2121   922890466                                     11A
080008240080000010001100000000000000011108000824080017700001   2121   122800466                                     11A
080008240080000010001100000000000000012108000824080017700001001801003600001246     00000000                         12A
080008240080000010001100000000000000012108000824080017700001001801003600001246     000000001   7502051              12A
08000824008000001000110000000000000001310800082408001770000111101                             0000002               13A
08000824008000001000110000000000000001310800082408001770000142401                             9999999               13A
08000824008000001000110000000000000001310800082408001770000143101                             9999999               13A
08000824008000001000110000000000000001310800082408001770000142101                             9999999               13A
0800082400800000100012102005030000000211080008240800180060011020050300     0000133000003002500000108F               21A
08000824008000001000121020050300000002210800082408001740000110200503001P1720036.CIGAR MFG                           22A
0800082400800000100012102005030000000231080008240800180060011020050300F 11101000002000                              23A
0800082400800000100012102005030000000231080008240800180060011020050300F 43101000001000                              23A
0800082400800000100012102005030000000231080008240800180060011020050300F 42602000022000                              23A
0800082400800000100012102005030000000231080008240800180060011020050300F 42401000144000S                             23A
0800082400800000100012102005030000000231080008240800180060011020050300F 42101000005000                              23A
0800082400800000200000000000000000000011080008240800277000                    18PR.A.LJONES                         01A
0800082400800000200000000000000000000021080008240800277000GENERAL INC TAYLOR                                        02A
0800082400800000200000000000000000000031080008240800277000                                                          03A
080008240080000020001100000000000000011108000824080027700001   0142   121800429            252525250865200002000    11A
080008240080000020001100000000000000012108000824080027700001000700800800000360     000000001    7710311             12A
08000824008000002000110000000000000001310800082408002770000111101       0000000000000000      0000001 3             13A
08000824008000002000110000000000000001310800082408002770000142602       0000000000000000              3             13A
08000824008000002000110000000000000001310800082408002770000142101       0000000000000000      9999999 3             13A
08000824008000002000110000000000000001310800082408002770000142401       0000000000000001      9999999 3             13A
08000824008000002000110000000000000001310800082408002770000143101       0210009900000000      9999999 3             13A
0800082400800000200012102005030000000211080008240800280060011020050300     0000017000001002500000108F               21A
08000824008000002000121020050300000002210800082408002740000110200503001 6                                           22A
0800082400800000200012102005030000000231080008240800280060011020050300F 43101000001000                              23A
0800082400800000200012102005030000000231080008240800280060011020050300F 42602000022000                              23A
0800082400800000200012102005030000000231080008240800280060011020050300F 42401000144000S                             23A
0800082400800000200012102005030000000231080008240800280060011020050300F 42101000005000                              23A
0800082400800000200012102005030000000231080008240800280060011020050300F 11101000002000                              23A
0800082400800000500000000000000000000011080008240800577000                    1APR.A.LJONES                         01A
0800082400800000500000000000000000000021080008240800577000GENERAL INC TAYLOR                                        02A
0800082400800000500000000000000000000031080008240800577000                                                          03A
080008240080000050001100000000000000011108000824080057700001   0142   121800429            252525250855200002000    11A
08000824008000005000110000000000000001210800082408005770000100070080080            000000004    7601221             12A
08000824008000005000110000000000000001310800082408005770000111101       0210009900000000              3             13A
08000824008000005000110000000000000001310800082408005770000142101       0000000000000000      9999999 3             13A
08000824008000005000110000000000000001310800082408005770000143101       0000000000000000      9999999 3             13A
08000824008000005000110000000000000001310800082408005770000142602       0000000000000000              3             13A
08000824008000005000110000000000000001310800082408005770000142401       0000000000000001      9999999 3             13A
0800082400800000500012102005030000000211080008240800580060011020050300     0000017000001002500000108F               21A
0800082400800000500012102005030000000221080008240800576000011020050300261750001                                     22A
```

Figure PST4-4 - continued. Sample Output (Page 11 of 12)

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```
                                                 EIS FILE MAINTENANCE PROGRAM - NEW MASTER LISTING                                          PAGE      1
0800082400800001000000000000000000000292  08000824080017500001                                    18PR SMITH                                    SAINT AGN
0800082400800000100011000000000000000452  080008240800177000101   2121   922890466                                                  0018010036000012
0800082400800000100012102005030000000318  0800082408001800602011020050300       00001330000030025000001081P1720036.CIGAR MFG
0800082400800000200000000000000000000292  08000824080027700001                                    18PR.A.LJONES                                 GENERAL I
0800082400800000200011000000000000000505  080008240800277000101   0142   121800429                25252525086520000200000700800800000 3
0800082400800000200012102005030000000318  0800082408002800602011020050300       00000170000010025000010818
0800082400800000500000000000000000000292  08000824080057700001                                    18PR.A.LJONES                                 GENERAL I
0800082400800000500011000000000000000505  080008240800577000101   0142   121800429                25252525085520000200000070080080
0800082400800000500012102005030000000318  0800082408005800602011020050300       0000017000001002500000108281750001
0800802400800000000000000000000000000292  08008024080007400001                                   806018 T T QUEEN                               AG SERV A
0800802400800000000801100000000000000505  080080240800077000181   1422   064200603                003838206853500000000000000000008000000
0800802400800000000801230501601000000318  0800802408000800572613050160100       00050000008000000000000001P        LIMEST CRUSH
0800802400800000100000000000000000000292  08008024080017500001                                   0060  PR TORRES                                BETTEROAD
0800802400800000100011000000000000000505  080080240800176000101   29510307000556                  25252525085510000060000030036022500408
0800802400800000100012305002010000000222  0800802408001800572013050020100       000061202000000000000001351C
0800802400800000100021000000000000000505  080080240800177000102   2951   076000556                            00000   0000000008000000
0800802400800000100022305002020000000222  0800802408001800572023050020200       0125000020000000000000001P
0800802400800000200000000000000000000292  08008024080027100001                                    19PJ.ANGLERO                                  BEST CONT
0800802400800000200011000000000000000505  080080240800277000101   3273   077300547                25252525085520000000000000000008000000
0800802400800000200012305020010000000318  0800802408002800572013050200100       000872800042000000000000001P12710182
0800802400800000300000000000000000000292  08008024080037500001                                   0060  SJ M WHYTELZ                             CENTRAL C
0800802400800000300011000000000000000505  080080240800377000101   2061   075500610                                          0175108050000774
0800802400800000300012102008200000000222  0800802408003740020110200082000       0013970        000025000081B       BAGASSE
0800802400800000300021000000000000000505  080080240800377000102   2061   075500610                                          0175108050000774
0800802400800000300022102008200000000222  0800802408003740002021020008200       0013970        000025000081BBAGASSE
0800802400800000300031000000000000000505  080080240800377000103   2061   075500610                                          0175108050000774
0800802400800000300032102008200000000222  0800802408003740002031020008200       0013970        000025000081BBAGASSE
0800802400800000300041000000000000000505  080080240800377000104   2061   075500610                            00547   0065070050001300
0800802400800000300042102008100000000222  0800802408003740002041020008100       0085090        000025000081BBAGASSE
0800802400800000500000000000000000000292  08008024080057400001                                    19PE.VEGA                                     LOADER MA
0800802400800000500011000000000000000505  080080240800577000101   1794   072700612                25252525055520000000000000000008500000
0800802400800000500012305020060000000318  0800802408005800572013050200600       0014929001148300000000000001P
0800802400800000600000000000000000000292  08008024080067700001                                    18PN BAKER                                    CARIBE FO
0800802400800000600011000000000000000505  080080240800677000101          074500638                25252525086520000000000000000000000000
0800802400800000600012301020860000000222  0800802408006770020130102086000       00000420000002000000000000001C
0800802400800000700000000000000000000292  08008024080078000001                                    16PS S VEEKETT                                RENBECK L
0800802400800000700011000000000000000505  080080240800778000101   2834   061000762                25252525165520000000000
0800802400800000700012301999940000000222  0800802408007780002013019999400       0000029000007            2PETHYLENE OXIDE RAW M
0801202400800000100000000000000000000292  08012024080018000001                                    18OJ.BONNET                                   SMITH IND
0801202400800000100011000000000000000505  080120240800177000101   491100076100637                 2525252524752002390000022110069003888
0801202400600000100012201001010000000222  0801202408001740002012010010100       000053600016580110000010818
0801202400800000200000000000000000000292  08012024080028000001                                    18PM W CAPNTE                                 CENTER AS
0801202400800000200011000000000000000505  080120240800277000101   295101083080683                 2525252508552     0000000000010000000
0801202400800000200012305020200000000222  0801202408002800572013050020200       0060000000288500000000000001P12710052
0801202400800000300000000000000000000292  08012024080038000001                                    18PJ E JONES                                  JONES AND
1800402240000000100000000000000000000292  18004022400017600001                                    16PSMOUT R L                                  LANCE J E
1800402240000000100011000000000000000505  180040224000175000101   2951   432041634
```

Figure PST4-4 - continued. Sample Output (Page 12 of 12)

EIS/PS Test 5

Update the Master File Using EIS/PS Transactions and Produce a Formatted Dump

In this test run, the master file is updated with EIS/PS transactions using the cataloged procedure EPEMM10 which executes PSRMFTR (EP0070), the master file transaction sort program; PEDMSTR (EP0080), the master file transaction edit program; PSREFIN (EP0090), the master file internal transaction pre-insertion sort program; PMSEFIN (EP0100), the master file internal transaction emission factor insertion program; PSRINTR (EP0110), the master file internal transaction sort program; and PFMMSTR (EP0120), the master file maintenance program. A formatted dump of the updated master file is printed using the cataloged procedure EPRPM30 which executes PRPDUMP (EP0220), the master file formatted dump program.

PSRMFTR (EP0070) sorts EIS/PS master file transactions (see Figure PST5-1 for the transaction formats) into the sequence required by the master file transaction edit program, PEDMSTR (EP0080). The fields of each transaction are sorted in the following order:

Record Position	Description	Sort Sequence
1 - 2	State	Ascending
3 - 6	County	Ascending
7 - 9	AQCR	Ascending
10 - 13	Plant ID	Ascending
19 - 20	Point ID	Ascending
78	Segment Type	Ascending
21 - 28	SCC	Ascending
21 - 22	PNR Sequence Number	Ascending
23 - 25	Line Number	Ascending
26	Comment Flag	Ascending
78 - 79	Card Number	Ascending
80	Action Code	*

---

* Sort sequence is D (delete), A (add), C (change).

All master file transactions must be sorted by PSRMFTR (EP0070) before they can be edited by the master file transaction edit program.

PEDMSTR (EP0080) edits the input EIS/PS master file transactions and converts those that pass the edit criteria into internal transactions.

There are 14 different formats for the EIS/PS transactions. Transactions 01, 02, 03, and 04 are used to enter general descriptive information pertaining to an individual plant (point source). Transactions 11, 12, 13, and 14 are used to enter descriptive information pertaining to an emission point and its emissions, as well as detailed emission information for a maximum of 16 pollutants. And, transactions 21, 22, 23, 24, and 25 are used to enter descriptive information related to an SCC, as well as detailed emission information for a maximum of 16 pollutants. Transaction 30 can contain permits and registration information and also other comments relating to a particular point. Refer to Figure PST5-1 for the master file transaction formats and to Figure PST5-2 for the master file transaction load sheets.

In the edit process, the function of each transaction is determined (i.e., to add, change, or delete information in the master file) and then the transaction is checked for the required information which corresponds to that function.

To add a plant record to the master file, valid 01, 02, and 03 transactions are required. Note that a plant record must be present in the master file or the transactions to create a plant record must be in the input transaction file before any other records will be accepted for that plant. Valid 11 and 12 transactions and at least one valid 13 transaction are required to add a point record to the master file. To add an SCC record, valid 21 and 22 transactions and at least one valid 23 transaction are required. For the creation of a comment record, a valid 30 transaction is required. Before either an SCC or comment record can be added to the master file for a specific point, the point record must be present in the master file or the transactions to create the point record must be in the input transaction file. Also, each transaction must have an action code of 'A'.

To change a non-key field in a master file record, the user enters the appropriate transaction; i.e., a plant transaction (card 01, 02, 03, or 04), a point transaction (card 11, 12, 13, or 14), an SCC transaction (card 21, 22, 23, 24, or 25), or comment transaction (card 30), with the same key information as the master file record to be changed. Also, this transaction must have an action code of 'C' and contain the new information for the field to be changed. If these requirements are met, the non-blank, non-key fields of the transaction will replace the corresponding fields in the master file record. A change transaction with an asterisk in the first position of an optional (or non-key) field will cause that field in the master file to be flagged for deletion and change the first character in the field to an asterisk.

Similarly, the deletion of a master file record requires that the user enter a transaction with the same key information as the master file record to be deleted. However, the transaction must also have an action code of 'D' and the remaining fields should contain blanks. It should be noted that the records are flagged for deletion as a result of this test run but are not actually deleted. When a record is flagged for deletion, all its subordinate records are also flagged for deletion.

There are three available options when executing PEDMSTR (EP0080); the year option, the FLAGW option, and the LIST option.

A two-digit year must be entered into card columns 1 and 2 of the option card. This date is used to validate dates on the transactions. No date (except compliance schedule) is allowed to be greater than the option card date.

A value of FLAGW in card columns 4 through 8 of the option card causes the warning messages to be listed in the diagnostic report. If NOFLAGW appears in card columns 4 through 10 or the field is blank (default of NOFLAGW) the warning messages will not be printed in the diagnostic report.

A value of LIST in card columns 12 through 15 causes the listings of the input transactions and of the output internal transactions to be produced. If NOLIST is in card columns 12 through 17 or the field is blank, no listings of these files will be produced.

For a description of the emission factor insertions programs, PSREFIN (EP0090) and PMSEFIN (EP0100), and the master file maintenance programs, PSRINTR (EP0110) and PFMMSTR (EP0120), refer to Test 4.

PRPDUMP (EP0220) produces a formatted dump of the EIS/PS master file; i.e., a listing with identifying headings of all the fields in each master file record, as the record appears in the file. PRPDUMP (EP0220) may also be used to produce a formatted dump of any EIS/PS answer file. This formatted dump provides the user a means of verifying information contained in a master (or answer) file and isolating invalid data.

The run stream for this test run contains the JCL needed to update the master file and produce a formatted dump. This run stream is shown in Figure PST5-3. It does not show all the input EIS/PS transactions in the run stream, but does show the necessary JCL. Refer to Figure PST5-4 for the sample output produced by this procedure.

The first cataloged procedure executed by this run stream is EPEMM10. The input master file, input emission factor file, and updated master file are specified as EPMSTR1 (created in Test 4), EPEMFC2 (created in Test 3), and EPMSTR2, respectively, by using substitutable parameters. The user must supply the DD (data definition) for the input transaction file in the SORT1 step, and the option card files in the EDIT, INSERT, and UPDATE steps. The options specified in the EDIT step are 80, FLAGW, and LIST; the options specified in the INSERT step are NOFLAGW, SUL IO, ASH IO, EMISSION IO, EDAT 80061, and TDAT 80040; the option specified in the UPDATE step is 80.

The next cataloged procedure executed is EPRPM30. The master file specified as input to the formatted dump program is EPMSTR2 which was created in the previous step.

EIS/PS Master File Transaction - 01 Card

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 21	3	Alphanumeric	User Control Region
22 - 23	2	Alphanumeric	Local Control
24 - 35	12	Alphanumeric	User Plant ID
36 - 39	4	Numeric	City
40 - 41	2	Numeric	UTM Zone
42	1	Alphabetic	Ownership Code
43 - 57	15	Alphanumeric	Contact
58 - 67	10	Numeric	Telephone
68 - 77	10	Alphanumeric	Principal Product
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

(Page 1 of 14)

Figure PST5-1. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 02 Card

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 66	48	Alphanumeric	Name and Address
67 - 70	4	Numeric	Number of Employees
71 - 76	6	Numeric	Property Area
77	1		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

(Page 2 of 14)

Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 03 Card

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 66	48	Alphanumeric	Mailing Address
67 - 77	11		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 04 Card

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 70	52	Alphanumeric	NEDS P7 Plant Comment
71 - 77	7		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 11 Card

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 23	3	Alphanumeric	User Point ID
24 - 27	4	Numeric	SIC Code
28 - 29	2	Numeric	IPP Code
30 - 33	4	Numeric	UTM Horizontal Coordinate
34 - 38	5	Numeric	UTM Vertical Coordinate
39 - 44	6	Numeric	Latitude
45 - 51	7	Numeric	Longitude
52 - 59	8	Numeric	Percentage Annual Thruput
60 - 64	5	Numeric	Normal Operating Rate
65 - 69	5	Numeric	Boiler Design Capacity
70 - 72	3	Numeric	Space Heat Percentage
73 - 77	5		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

(Page 5 of 14)

Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 12 Card

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 24	4	Numeric	Stack Height
25 - 27	3	Numeric	Stack Diameter
28 - 31	4	Numeric	Stack Temperature
32 - 38	7	Numeric	Exhaust Flow Rate
39 - 43	5	Numeric	Velocity
44 - 47	4	Numeric	Plume Height
48 - 51	4	Alphanumeric	Points with Common Stack
52	1	Numeric	Compliance Status
53 - 56	4	Numeric	Compliance Schedule
57 - 62	6	Numeric	Compliance Update
63	1	Numeric	ECAP
64 - 75	12	Numeric	Control Regulations
76 - 77	2		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 13 Card

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 25	5	Numeric	Point Pollutant ID
26 - 32	7	Numeric	Control Equipment Cost
33 - 35	3	Numeric	Primary Control Equipment
36 - 38	3	Numeric	Secondary Control Equipment
39 - 41	3	Numeric	Estimated Control Efficiency
42 - 48	7	Numeric	Estimated Emissions
49 - 55	7	Numeric	Measured Emissions
56 - 62	7	Numeric	Allowable Emissions
63	1	Numeric	Emissions Units
64	1	Numeric	Estimation Method
65	1	Numeric	Test Method
66 - 77	12		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 14 Card

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 72	52	Alphanumeric	NEDS P7 Point Comment
73 - 77	5		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 21 Card

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 28	8	Numeric	SCC
29 - 30	2	Numeric	SCC Sequence Number
31 - 35	5	Numeric	BEC Code
36	1	Numeric	Fuel Units
37 - 43	7	Numeric	Fuel Process Rate
44 - 50	7	Numeric	Maximum Design Rate
51 - 53	3	Numeric	Sulfur Content
54 - 56	3	Numeric	Ash Content
57 - 61	5	Numeric	Heat Content
62	1	Alphabetic	Ash-Sulfur Origin
63	1	Alphabetic	Ash-Sulfur Source
64 - 77	14		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 22 Card

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 28	8	Numeric	SCC
29 - 30	2	Numeric	SCC Sequence Number
31	1	Numeric	Confidentiality
32	1	Alphabetic	Source Code
33 - 57	25	Alphanumeric	Source Description
58 - 77	20		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 23 Card

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 28	8	Numeric	SCC
29 - 30	2	Numeric	SCC Sequence Number
31	1	Alphabetic	EMF Origin
32	1	Alphanumeric	EMF Source
33 - 37	5	Numeric	SCC Pollutant ID
38 - 46	9	Numeric	Emission Factor
47	1	Alphabetic	Ash-Sulfur Code
48	1	Numeric	EMF Units
49 - 64	16		Repeat Column 33 - 48
65 - 77	13		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 24 Card

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 28	8	Numeric	SCC
29 - 30	2	Numeric	SCC Sequence Number
31 - 56	26	Alphanumeric	NEDS P7 SCC Comment (Left Half)
57 - 77	21		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 25 Card

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 28	8	Numeric	SCC
29 - 30	2	Numeric	SCC Sequence Number
31 - 56	26	Alphanumeric	NEDS P7 SCC Comment (Right Half)
57 - 77	21		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 30 Card

Column #	Field Length	Data Type	Description
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 22	2	Numeric	PNR Sequence Number
23 - 25	3	Numeric	PNR Line Number
26	1	Alphabetic	Comment Flag
27 - 77	51	Alphanumeric	Comment
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

AGENCY ____________

EMISSIONS INVENTORY SYSTEM / POINT SOURCE (EIS / PS)
COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
PLANT RECORD (SEGMENT O) TRANSACTIONS

BY ____________
DATE ____________
PAGE ______ OF ______

STATE	COUNTY	AOCR	PLANT ID NUMBER	DATE OF RECORD YR	DATE OF RECORD DAY
1	3	7	10	14	16

CONTROL REGION	LOCAL CONTROL	USER PLANT ID	CITY	UTM ZONE	OWNER	CONTACT PERSON	TELEPHONE	PRINCIPAL PRODUCT	CARD NBR	ACTION
19	22	24	36	40	42	43	58	68	78	80
									0 1	

ESTABLISHMENT NAME AND ADDRESS	NUMBER OF EMPLOYEES	PROPERTY AREA		CARD NBR	ACTION
19	67	71		78	80
		A		0 2	

ESTABLISHMENT MAILING ADDRESS		CARD NBR	ACTION
19 66		78	80
		0 3	

NEDS P7 PLANT COMMENT		CARD NBR	ACTION
19 70		78	80
		0 4	

Figure PST5-2. EIS/PS Master File Transaction Load Sheets
(Page 1 of 4)

AGENCY ____________________

EMISSIONS INVENTORY SYSTEM/POINT SOURCE (EIS/PS)
COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
POINT RECORD (SEGMENT 1) TRANSACTIONS

BY ____________________
DATE ____________________
PAGE ________ OF ________

STATE	COUNTY	AQCR	PLANT ID NBR	DATE OF RECORD YR	DATE OF RECORD DAY	NEDS POINT ID
1	3	7	10	14		19

USER POINT ID	SIC	IPP	UTM HORIZ	UTM VERT	LATITUDE DEG	LATITUDE MIN	LATITUDE SEC	LONGITUDE DEG	LONGITUDE MIN	LONGITUDE SEC	% ANNUAL THRUPUT DEC-FEB	% ANNUAL THRUPUT MAR-MAY	% ANNUAL THRUPUT JUN-AUG	% ANNUAL THRUPUT SEP-NOV	OPERATE RATE HR	OPERATE RATE D	OPERATE RATE WK	BOILER CAPACITY	SPACE HEAT		CARD NBR	ACTION
21	24	28	30	34	39			45			52				60			65	70		78	30
																					1 1	

STACK DATA HEIGHT	STACK DATA DIAM	STACK DATA TEMP	STACK DATA FLOWRATE	STACK DATA VELOCITY	STACK DATA PLUME HEIGHT	POINTS WITH COMMON STACK		COMP	COMP SCHED YR	COMP SCHED MO	COMPLIANCE UPDATE YR	COMPLIANCE UPDATE MO	COMPLIANCE UPDATE DAY	ECAP	CONTROL REGULATIONS REG 1	CONTROL REGULATIONS REG 2	CONTROL REGULATIONS REG 3		CARD NBR	ACTION
21	25	28	32	39	44	48		52	53		57			63	64		75		78	80
																			1 2	

POLLUTANT ID	CONTROL EQUIPMENT COST	PRIM CNTRL EQUIP	SECNDY CNTRL EQUIP	EST CONTROL EFF	EMISSIONS ESTIMATE	MEASURED EMISSIONS	ALLOWABLE EMISSIONS	EUNT	ESTM	TESTM		CARD NBR	ACTION
21	26	33	36	39	42	49	56	63	64	65		78	80
												1 3	
												1 3	
												1 3	
												1 3	
												1 3	
												1 3	
												1 3	
												1 3	
												1 3	
												1 3	
												1 3	
												1 3	
												1 3	
												1 3	
												1 3	
												1 3	
												1 3	
												1 3	

NEDS P7 POINT COMMENT		CARD NBR	ACTION
21			
		1 4	

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Figure PST5-2 - continued. EIS/PS Master File Transaction Load Sheets

AGENCY ______________

EMISSIONS INVENTORY SYSTEM/POINT SOURCE (EIS/PS)
COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
SCC RECORD (SEGMENT 2) TRANSACTIONS

BY ______________
DATE ______________
PAGE ________ OF ______

STATE	COUNTY	AQCR	PLANT ID NBR	DATE OF RECORD YR	DATE OF RECORD DAY	NEDS POINT ID	SCC I	SCC II	SCC III	SCC IV	SCC SEQ NBR
1	3	7	10	14		19	21				29

BEC NO.	BEC ID	F UNIT	FUEL PROCESS SOLID WASTE OPERATING RATE	MAXIMUM DESIGN RATE	SULFUR CONTENT	ASH CONTENT	HEAT CONTENT	A/S ORG	A/S SRC		CARD NBR	ACTION
31		36	37	44	51	54	57	62	63		78	80
				▲	▲	▲					2 1	

C CONF	SHC CD	SOURCE DESCRIPTION		CARD NBR	ACTION
31	32	33 57		78	80
				2 2	

EMF ORG	EMF SRC	POLLUTANT ID	EMISSION FACTOR	A/S CD	E UNIT	POLLUTANT ID	EMISSION FACTOR	A/S CD	E UNIT		CARD NBR	ACTION
31	32	33	38	47	48	49	54	63	64		78	80
			▲				▲				2 3	
			▲				▲				2 3	
			▲				▲				2 3	
			▲				▲				2 3	
			▲				▲				2 3	
			▲				▲				2 3	
			▲				▲				2 3	
			▲				▲				2 3	
			▲				▲				2 3	
			▲				▲				2 3	
			▲				▲				2 3	
			▲				▲				2 3	
			▲				▲				2 3	
			▲				▲				2 3	
			▲				▲				2 3	
			▲				▲				2 3	

NEDS P7 SCC COMMENT - LEFT HALF		CARD NBR	ACTION
31 56		78	80
		2 4	

NEDS P7 SCC COMMENT - RIGHT HALF		CARD NBR	ACTION
31 56		78	80
		2 5	

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Figure PST5-2 - continued. EIS/PS Master File Transaction Load Sheets

AGENCY ____________

EMISSIONS INVENTORY SYSTEM / POINT SOURCE (EIS / PS)
COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
COMMENT RECORD (SEGMENT 3) TRANSACTIONS

BY ____________

DATE ____________

PAGE ______ OF ______

STATE 1	COUNTY 3	AQCR 7	PLANT ID NBR 10	DATE OF RECORD YR 14	DATE OF RECORD DAY	POINT ID 19

PNR SEQ NBR 21	LINE NBR 23	L/R 26	HALF COMMENT 27	CARD NBR 78	ACTION 80
				30	
				30	
				30	
				30	
				30	
				30	
				30	
				30	
				30	
				30	
				30	
				30	
				30	
				30	
				30	
				30	
				30	
				30	
				30	
				30	

Figure PST5-2 - continued. EIS/PS Master File Transaction Load Sheets

(Page 4 of 4)

```
//PSTEST05 JOB    (ACCOUNTING INFO)
//*
//*   UPDATE THE MASTER FILE USING ETS/PS TRANSACTIONS AND PRODUCE A
//*   FORMATTED DUMP
//*
//TEST5A EXEC EPEMM10,
//       EMFCFIL=EPEMFC2,
//       OLDMSTR=EPMSTR1,
//       NEWMSTR=EPMSTR2,
//       WORKSPC='30,20'
//*
//*   UPDATE THE MASTER FILE FROM TEST 4
//*
//SORT1.INPUT DD *
06196005300018004712304PL-3175      001212PFRANKE SMYTHE  59195443769ENGINES  01A
061960053000180047SYMTHE ENGINE CO                                    14    19 02A
061960053000180047RED OAKE, COLORADO                                           03A
061960053000180047PLANT NOT IN PRODUCTION 12/79 THRU /4/80                     04A
061960053000180047010111141212054095557121210515152020303011054700137097       11A
06196005300018004701  90 10 100     123  150 9000101281107912151  44  15  17  12A
0619600530001800470111101    100022041985    100    200    300433              13A
0619600530001800470142101    100022041985    100    200    300433              13A
06196005300018004701POINT ADDED 12/14/79                                       14A
061960053000180047014030010100123012   3000   4000912201  150LB                21A
0619600530001800470140300101001HENGINE                                         22A
061960053000180047014030010100LB11101      3241A122104      41552              23A
061960053000180047014030010100LH42101      3241A142602      41552              23A
061960053000180047014030010100SCC LEFT COMMENT P7                              24A
061960053000180047014030010100SCC RIGHT P7 COMMENT                             25A
061960053000180047014030010202123012   3000   4000912201  150LB                21A
0619600530001800470140300102021BENGINE                                         22A
061960053000180047014030010202LB11101      3241A122104      41552              23A
061960053000180047014030010202LH42101      3241A142602      41552              23A
061960053000180047014030010202SCC LEFT COMMENT P7                              24A
0619600530001800470102021LPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/7930A
0619600530001800470102021W WILL BE CITED 3/1/80                                30A
06196005300018011314011114121205409555712121051515202030301105470013 7097      11A
06196005300018011314  90 10 100     123  151 9001020281107912151  44  15  17  12A
0619600530001801131411101    100022041985    100    200    300433              13A
0619600530001801131442101    100022041985    100    200    300433              13A
```

(Remainder of transactions omitted)

```
//EDIT1.OPTIONS DD *
80 FLAGW    LIST
//INSERT1.OPTIONS DD *
NOFLAGW SOL 10 ASH 10 EMISSION 10 EDAT 80061 TDAT 80040
//UPDATE.OPTIONS DD *
80
//TEST5B EXEC EPRPM30,
//       MSTRFIL=EPMSTR2
//*
//*   GENERATE THE FORMATTED DUMP
```

Figure PST5-3. Run Stream

```
                    LIS/PS MASTER FILE TRANSACITON SORT PROGRAM  -  DIAGNOSTIC REPORT                              PAGE      1

 PROGRAM NAME: PSRMFTR (FP0070)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS:      239
NUMBER OF OUTPUT TRANSACTIONS:      239
```

Figure PST5-4. Sample Output

(Page 1 of 11)

```
                              EIS/PS MASTER FILE TRANSACTION EDIT PROGRAM  -  DIAGNOSTIC REPORT              PAGE     1

PROGRAM NAME: PEDMSTR (EP0080)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

OPTIONS IN EFFECT: FLAG=     LIST
CONTROL YEAR: 80

0619600530001800470101111141212454095557121210515152020303011054700137097      11A
                                  B  E          B      E
          *** PEDMSTR 034 CONDITIONAL - COLUMN 34 - UIM-VERTICAL CODE OUT OF RANGE
          *** PEDMSTR 093 CONDITIONAL - COLUMN 52 - INVALID THRUPUT SUM

06196005300018004701  90 10 100    123  150 9000101281107912151  44  15  17  12A
                                            B  EB  E
          *** PEDMSTR 050 CONDITIONAL - COLUMN 44 - PLUME HEIGHT IS GREATER THAN 200
          *** PEDMSTR 052 CONDITIONAL - COLUMN 48 - 1ST POINT GREATER THAN OR EQUAL TO 2ND POINT
          *** PEDMSTR 100 CONDITIONAL - NEDS POINT ID NOT WITHIN COMMON STACK POINTS

0619600530001801131001111141212454095557121210515152020303011054700137097      11A
                                  B  E          B      E
          *** PEDMSTR 034 CONDITIONAL - COLUMN 34 - UIM-VERTICAL CODE OUT OF RANGE
          *** PEDMSTR 093 CONDITIONAL - COLUMN 52 - INVALID THRUPUT SUM

06196005300018011310  90 10 100    123  151 9001020281107912151  44  15  17  12A
                                            B  E
          *** PEDMSTR 050 CONDITIONAL - COLUMN 44 - PLUME HEIGHT IS GREATER THAN 200
          *** PEDMSTR 100 CONDITIONAL - NEDS POINT ID NOT WITHIN COMMON STACK POINTS

0619600530041801470101111141212454095557121210515152020303011054700137097      11A
                                  B  E          B      E
          *** PEDMSTR 034 CONDITIONAL - COLUMN 34 - UIM-VERTICAL CODE OUT OF RANGE
          *** PEDMSTR 093 CONDITIONAL - COLUMN 52 - INVALID THRUPUT SUM

06196005300418014701  90 10 100    123  152 9000101281107912151  44  15  17  12A
                                            B  EB  E
          *** PEDMSTR 050 CONDITIONAL - COLUMN 44 - PLUME HEIGHT IS GREATER THAN 200
          *** PEDMSTR 052 CONDITIONAL - COLUMN 48 - 1ST POINT GREATER THAN OR EQUAL TO 2ND POINT
          *** PEDMSTR 100 CONDITIONAL - NEDS POINT ID NOT WITHIN COMMON STACK POINTS

0619600530041801480201111141212454095557121210515152020303011054700137097      11A
                                  B  E          B      E
```

Figure PST5-4 - continued. Sample Output
(Page 2 of 11)

```
          *** PEDMSTR 034 CONDITIONAL - COLUMN 34 - UTM-VERTICAL CODE OUT OF RANGE
          *** PEDMSTR 043 CONDITIONAL - COLUMN 52 - INVALID THRUPUT SUM


062004053A0N180345AB  90 10 100    123  153 900AAAB281107912151  44  15  17  12A
                                             B E
          *** PEDMSTR 050 CONDITIONAL - COLUMN 44 - PLUME HEIGHT IS GREATER THAN 200
          *** PEDMSTR 100 CONDITIONAL - NEDS POINT ID NOT WITHIN COMMON STACK POINTS


34004020300038014901131O1                        00069130023007 10            13A
                                            B    E
          *** PEDMSTR 067 ERROR - COLUMN 42 - EMISS. EST. REQUIRED FOR METHODS 2,4,5; CARD REJECTED


340040203000380149016240l                        00069130023007 10            13A
                                            B    E
          *** PEDMSTR 067 ERROR - COLUMN 42 - EMISS. EST. REQUIRED FOR METHODS 2,4,5; CARD REJECTED


3400402030003801490126302                        00069130023007 10            13A
                                            B    E
          *** PEDMSTR 067 ERROR - COLUMN 42 - EMISS. EST. REQUIRED FOR METHODS 2,4,5; CARD REJECTED


NUMBER OF TRANSACTIONS READ:                           239
NUMBER OF INTERNAL TRANSACTIONS WRITTEN:               236
NUMBER OF TRANSACTIONS REJECTED:                         3
NUMBER OF ABORT MESSAGES:                                0
NUMBER OF ERROR MESSAGES:                                3
NUMBER OF CONDITIONAL MESSAGES:                         35
NUMBER OF WARNING MESSAGES:                              0


PROGRAM NAME: PEDMSTR (EP0080)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
```

Figure PST5-4 - continued. Sample Output
(Page 3 of 11)

```
                                                INPUT ETS/PS MASTER FILE TRANSACTIONS                                   PAGE     1

06196005300018004712304PL-3175     001212PFRANKE SMYTHE  59195443769ENGINES  01A
061960053000180047SYMTHE ENGINE CO                                  14    19 02A
061960053000180047RED OAKE, COLORADO                                         03A
061960053000180047PLANT NOT IN PRODUCTION 12/79 THRU /4/80                   04A
061960053000180047010111141212454095557121210515152020303011054700137097     11A
06196005300018004701  90 10 100    123  150 900010128110791215l  44  15  17  12A
0619600530001800470142101     100022041985    100    200    300433           13A
0619600530001800470111101     100022041985    100    200    300433           13A
06196005300018004701POINT ADDED 12/14/79                                     14A
061960053000180047014030010100123012   3000   4000412201  150LH              21A
06196005300018004701403001010011ENGINE                                       22A
06196005300018004701403001010OLH11101      3241A122104      41552            23A
06196005300018004701403001010OLH42101      3241A142602      41552            23A
06196005300018004701403001010OSCC LEFT COMMENT P7                            24A
06196005300018004701403001010OSCC RIGHT P7 COMMENT                           25A
061960053000180047014030010202123012   3000   4000912201  150LH              21A
0619600530001800470140300102021HENGINE                                       22A
0619600530001800470140300102O2LH42101      3241A142602      41552            23A
0619600530001800470140300102O2LH11101      3241A122104      41552            23A
0619600530001800470140300102O2SCC LEFT COMMENT P7                            24A
0619600530001800470102021H WILL BE CITED 3/1/80                              30A
0619600530001800470102021LPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/7930A
06196005300018011310111141212454095557121210515152020303011054700137097     11A
06196005300018011310  90 10 100    123  151 900102028110791215l  44  15  17  12A
0619600530001801131042101     100022041985    100    200    300433           13A
0619600530001801131011101     100022041985    100    200    300433           13A
06196005300018011310POINT ADDED 12/14/79                                     14A
061960053000180113104030010100123012   3000   4000912201  150LH             21A
0619600530001801131040300101001HENGINE                                      22A
06196005300018011310403001010OLH42101      3241A142602      41552            23A
06196005300018011310403001010OLH11101      3241A122104      41552            23A
06196005300018011310403001010OSCC LEFT COMMENT P7                            24A
06196005300018011310403001010OSCC RIGHT P7 COMMENT                           25A
061960053000180113104030010202123012   3000   4000912201  150LH              21A
0619600530001801131040300102021HENGINE                                       22A
0619600530001801131040300102O2LH11101      3241A122104      41552            23A
0619600530001801131040300102O2LH42101      3241A142602      41552            23A
0619600530001801131040300102O2SCC LEFT COMMENT P7                            24A
061960053000180113102021H WILL BE CITED 3/1/80                               30A
061960053000180113102021LPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/7930A
06196005300418014712304PL-3175     001212PGEORGE SMYTHE  69195443769PLANTS   01A
061960053004180047SYMTHE ENGINE CO                                  14    19 02A
061960053004180147WILLITES, COLORADO                                         03A
061960053004180047PLANT NOT IN PRODUCTION 12/79 THRU /4/80                   04A
061960053004180147010111141212454095557121210515152020303011054700137097     11A
06196005300418014701  90 10 100    123  152 900010128110791215l  40  15  17  12A
0619600530041801470142101     230022041985    230    200    300433           13A
0619600530041801470143101     230022041985    230    200    300433           13A
06196005300418014701POINT ADDED 12/14/79                                     14A
```

Figure PST5-4 - continued. Sample Output

(Page 4 of 11)

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```
                    EDITED EIS/PS MASTER FILE TRANSACTIONS (INTERNAL FORMAT)                              PAGE      1

06196005300000000100000000000000000000000011061960053000180004712304PL-3175      001212PFRANKE SMYTHE  59195443769ENGINES  01A
06196005300000000100000000000000000000000210619600530001800047SYMTHE ENGINE CO                                  0014000019 02A
06196005300000000100000000000000000000000310619600530001800047RED OAKE, COLORADO                                           03A
06196005300000000100000000000000000000000410619600530001800047PLANT NOT IN PRODUCTION 12/79 THRU /4/80                     04A
061960053000000001000110000000000000000011106196005300018000470101111412124540955571212105151520203030110547001370 97       11A
06196005300000000100011000000000000000001210619600530001800047010090010010000001230015009000101281107912151   44   15   17  12A
0619600530000000010001100000000000000000131061960053000180004701421010000100022041985000010000002000000300433              13A
0619600530000000010001100000000000000000131061960053000180004701111010000100022041985000010000002000000300433              13A
06196005300000000100011000000000000000001410619600530001800047 01POINT ADDED 12/14/79                                       14A
061960053000000001000124030010100000000211061960053000180004701403001010012301200030000004000912201001 50LB                21A
06196005300000000100012403001010000000022106196005300018000470140300101001BENGINE                                          22A
0619600530000000010001240300101000000002310619600530001800047014030010100LB11101000003241A122104000000415S2                23A
0619600530000000010001240300101000000002310619600530001800047014030010100LH4210100000 3241A142602000000415S2               23A
0619600530000000010001240300101000000002410619600530001800047014030010100SCC LEFT COMMENT P7                               24A
0619600530000000010001240300101000000002510619600530001800047014030010100SCC RIGHT P7 COMMENT                              25A
061960053000000001000124030010202000000211061960053000180004701403001020212301200030000004000912201001 50LB                21A
06196005300000000100012403001020200000022106196005300018000470140300102021BENGINE                                          22A
0619600530000000010001240300102020000002310619600530001800047014030010202LB4210100000 3241A142602000000415S2               23A
0619600530000000010001240300102020000002310619600530001800047014030010202LB11101000003241A122104000000415S2                23A
0619600530000000010001240300102020000002410619600530001800047014030010202SCC LEFT COMMENT P7                               24A
06196005300000000100013000000000002021301061960053000180004701020 21R WILL BE CITED 3/1/80                                 30A
06196005300000000100013000000000002021301061960053000180004701020 21LPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/7930A
06196005300000000101271000000000000000111061960053000180113100111141212454095557121210515152020303011054700137097          11A
0619600530000000010127100000000000000012106196005300018011310009001001000000123001510900102028110791215 1   44   15   17  12A
0619600530000000010127100000000000000013106196005300018011310421010000100022041985000010000002000000300433                 13A
0619600530000000010127100000000000000013106196005300018011310111010000100022041985000010000002000000300433                 13A
06196005300000000101271000000000000000141061960053000180113 10POINT ADDED 12/14/79                                          14A
0619600530000000010127240300101000000021106196005300018011310403001010012301200030000004000912201001 50LB                  21A
0619600530000000010127240300101000000022106196005300018011310403001010 01BENGINE                                           22A
061960053000000001012724030010100000002310619600530001801131040300101 00LH4210100000 3241A142602000000415S2               23A
061960053000000001012724030010100000002310619600530001801131040300101 00LB11101000003241A122104000000415S2                23A
061960053000000001012724030010100000002410619600530001801131040300101 00SCC LEFT COMMENT P7                               24A
061960053000000001012724030010100000002510619600530001801131040300101 00SCC RIGHT P7 COMMENT                              25A
0619600530000000010127240300102020000002110619600530001801131040300102021230120003000000400091220100150LB                  21A
0619600530000000010127240300102020000002210619600530001801131040300102021BENGINE                                           22A
0619600530000000010127240300102020000002310619600530001801131040300102 02LB11101000003241A122104000000415S2               23A
0619600530000000010127240300102020000002310619600530001801131040300102 02LH4210100000 3241A142602000000415S2              23A
0619600530000000010127240300102020000002410619600530001801131040300102 02SCC LEFT COMMENT P7                              24A
06196005300000000101273000000000002021301061960053000180113102021R WILL BE CITED 3/1/80                                    30A
06196005300000000101273000000000002021301061960053000180113102021LPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/7930A
06196005300000040100000000000000000000011061960053004180147123 04PL-3175      001212PGEORGE SMYTHE  69195443769PLANTS    01A
06196005300000040100000000000000000000000210619600530041800 47SYMTHE ENGINE CO                                0014000019 02A
061960053000000401000000000000000000000003106196005300418014 71WILITES, COLORADO                                          03A
06196005300000040100000000000000000000000410619600530041800 47PLANT NOT IN PRODUCTION 12/79 THRU /4/80                   04A
061960053000000401000110000000000000000111061960053004180147010111141212454095557121210515152020303011054700137097        11A
06196005300000040100011000000000000000001210619600530041801470100900100100000012300152090001012811079121 51   44   15   17  12A
06196005300000040100011000000000000000001310619600530041801470142101000023002204198500002300000200000030 0433              13A
06196005300000040100011000000000000000001310619600530041801470143101000023002204198500002300000200000030 0433              13A
0619600530000004010001100000000000000000141061960053004180147 01POINT ADDED 12/14/79.                                      14A
```

Figure PST5-4 - continued. Sample Output

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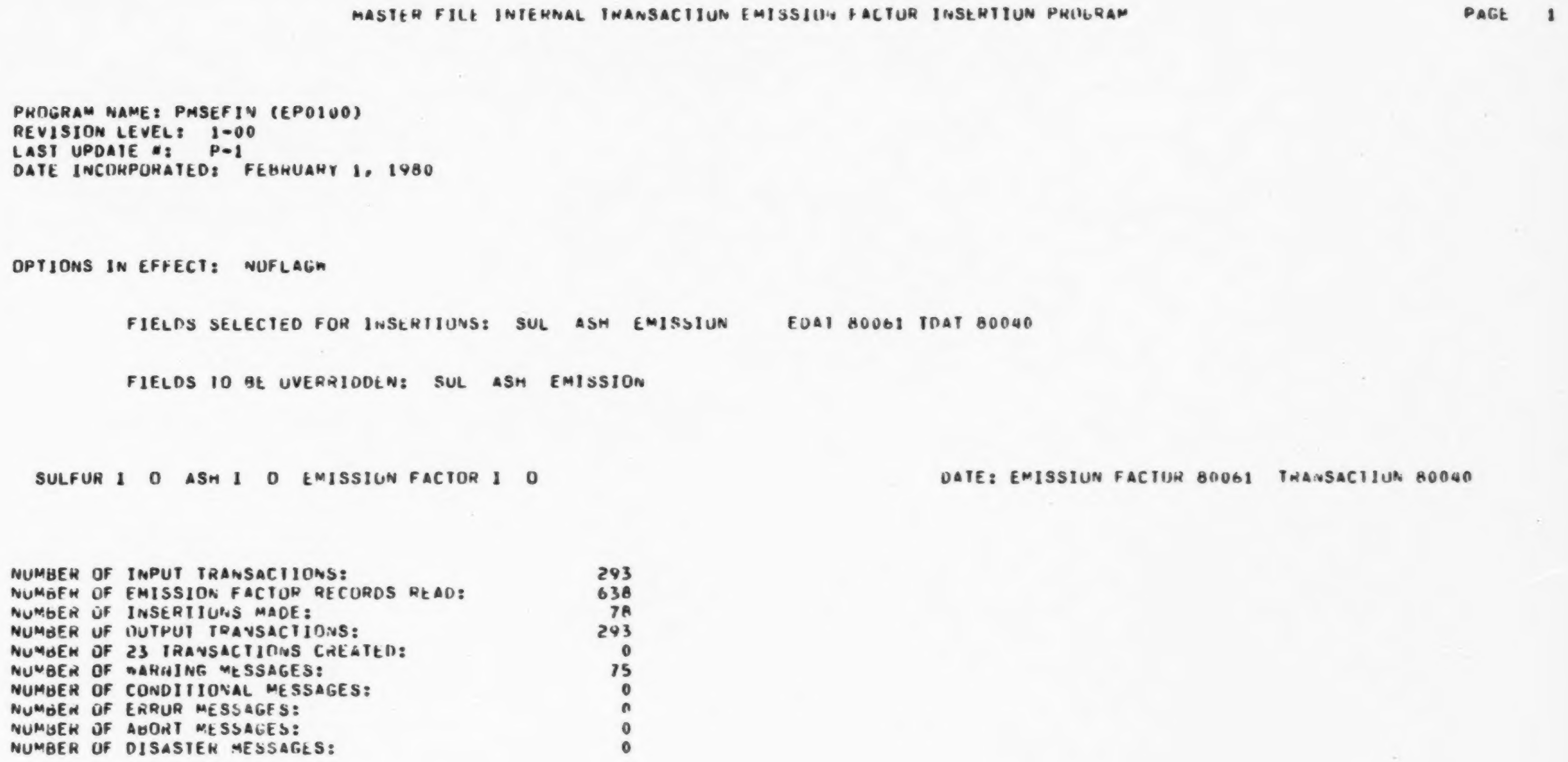
```
        EIS/PS MASTER FILE INTERNAL TRANSACTION PRE-INSERTION SORT PROGRAM  -  DIAGNOSTIC REPORT           PAGE 1


PROGRAM NAME: PSREFIN (EP0090)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF INPUT TRANSACTIONS:         236
NUMBER OF OUTPUT TRANSACTIONS:        293
```

Figure PST5-4 - continued. Sample Output

(Page 6 of 11)



```
                                   MASTER FILE INTERNAL TRANSACTION EMISSION FACTOR INSERTION PROGRAM                    PAGE    1


PROGRAM NAME: PMSEFIN (EP0100)
REVISION LEVEL:  1-00
LAST UPDATE #:    P-1
DATE INCORPORATED:  FEBRUARY 1, 1980



OPTIONS IN EFFECT:  NOFLAGW

          FIELDS SELECTED FOR INSERTIONS:  SUL   ASH  EMISSION      EDAT 80061 TDAT 80040


          FIELDS TO BE OVERRIDDEN:  SUL   ASH  EMISSION



  SULFUR I  O  ASH I  O  EMISSION FACTOR I  O                                   DATE: EMISSION FACTOR 80061  TRANSACTION 80040



NUMBER OF INPUT TRANSACTIONS:                          293
NUMBER OF EMISSION FACTOR RECORDS READ:                638
NUMBER OF INSERTIONS MADE:                              78
NUMBER OF OUTPUT TRANSACTIONS:                         293
NUMBER OF 23 TRANSACTIONS CREATED:                       0
NUMBER OF WARNING MESSAGES:                             75
NUMBER OF CONDITIONAL MESSAGES:                          0
NUMBER OF ERROR MESSAGES:                                0
NUMBER OF ABORT MESSAGES:                                0
NUMBER OF DISASTER MESSAGES:                             0
```

Figure PST5-4 - continued. Sample Output
(Page 7 of 11)

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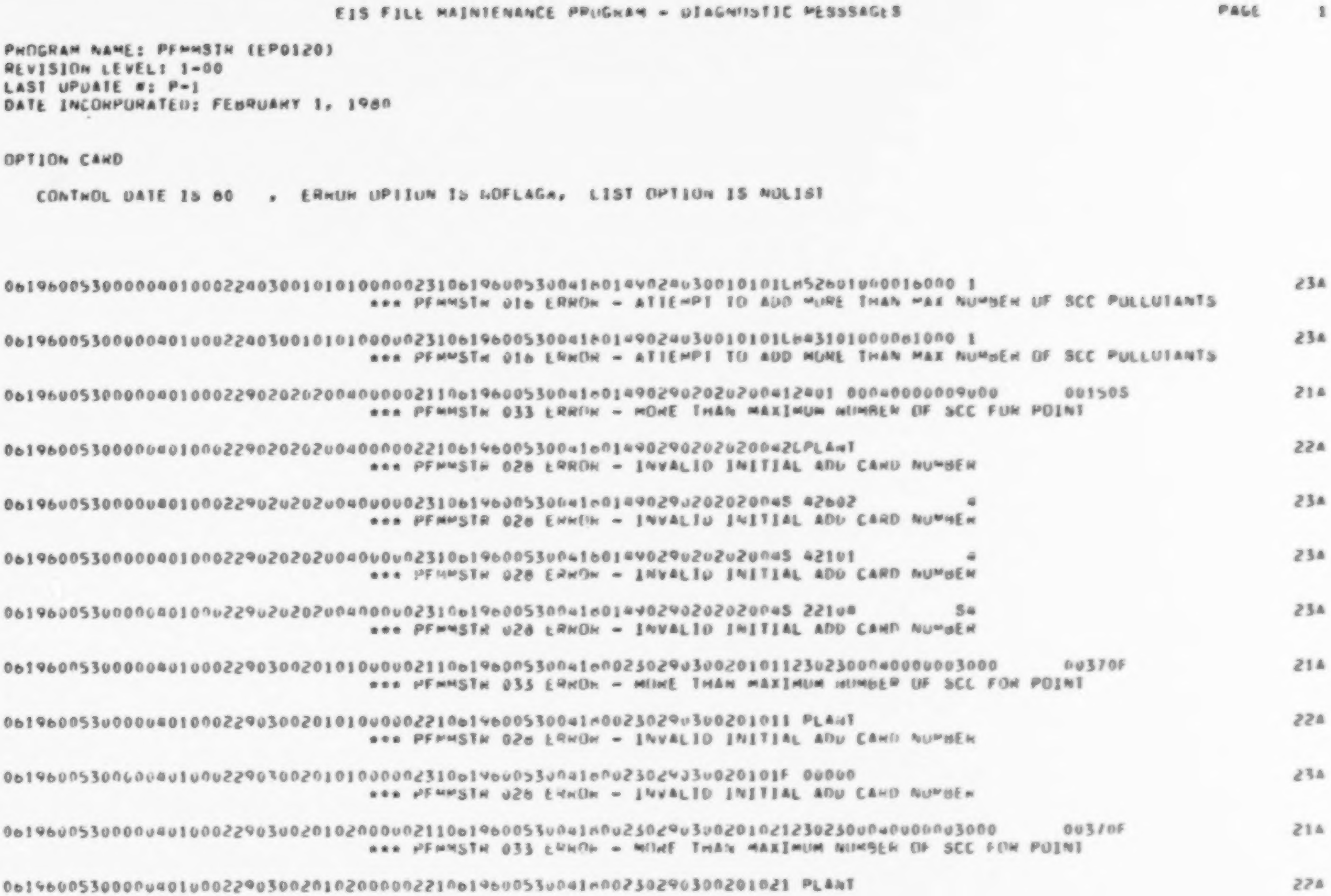
```
                         EIS/PS MASTER FILE INTERNAL TRANSACTION SORT PROGRAM                  PAGE 1


PROGRAM NAME: PSRINTR (EP0110)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF INPUT TRANSACTIONS:      293
NUMBER OF OUTPUT TRANSACTIONS:     293
```

Figure PST5-4 - continued. Sample Output
(Page 8 of 11)



```
                              EIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSSAGES                              PAGE      1

PROGRAM NAME: PFMMSTR (EP0120)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD

   CONTROL DATE IS 80    ,  ERROR OPTION IS NOFLAGS,  LIST OPTION IS NOLIST


06196005300000040100022403001010100000231061960053004160149024030010101LM52601000016000 1                          23A
                                        *** PFMMSTR 016 ERROR - ATTEMPT TO ADD MORE THAN MAX NUMBER OF SCC POLLUTANTS

06196005300000040100022403001010100000231061960053004160149024030010101LM3101000061000 1                           23A
                                        *** PFMMSTR 016 ERROR - ATTEMPT TO ADD MORE THAN MAX NUMBER OF SCC POLLUTANTS

0619600530000004010002290202020040000021106196005300416014902902020200412401 00040000009000       001505             21A
                                        *** PFMMSTR 033 ERROR - MORE THAN MAXIMUM NUMBER OF SCC FOR POINT

0619600530000004010002290202020040000022106196005300416014902902020200042LPLANT                                     22A
                                        *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER

06196005300000040100022902020200400000231061960053004160149029020202004S 42602          4                           23A
                                        *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER

06196005300000040100022902020200400000231061960053004160149029020202004S 42101          4                           23A
                                        *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER

06196005300000040100022902020200400000231061960053004160149029020202004S 22108          S4                          23A
                                        *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER

0619600530000004010002290300201010000021106196005300416002302903002010112302300040000003000       00370F            21A
                                        *** PFMMSTR 033 ERROR - MORE THAN MAXIMUM NUMBER OF SCC FOR POINT

06196005300000040100022903002010100000221061960053004160023029030020101 1 PLANT                                     22A
                                        *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER

0619600530000004010002290300201010000023106196005300416002302903002010 1F 00000                                      23A
                                        *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER

0619600530000004010002290300201020000021106196005300416002302903002010212302300040000003000       00370F            21A
                                        *** PFMMSTR 033 ERROR - MORE THAN MAXIMUM NUMBER OF SCC FOR POINT

06196005300000040100022903002010200000221061960053004160023029030020102 1 PLANT                                     22A
```

Figure PST5-4 - continued. Sample Output

(Page 9 of 11)

```
                          EIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSSAGES                         PAGE      3
       NUMBER OF INPUT TRANSACTIONS READ                              293
       NUMBER OF DISASTERS DETECTED                                     0
       NUMBER OF ABORTS DETECTED                                        0
       NUMBER OF ERRORS DETECTED                                       19
       NUMBER OF CONDITIONALS DETECTED                                  0
       NUMBER OF WARNINGS DETECTED                                      0
       NUMBER OF TRANSACTIONS REJECTED                                 17
       NUMBER OF POINT SOURCE FILE RECORDS READ IN                    123
       NUMBER OF POINT SOURCE FILE RECORDS WRITTEN OUT                172
```

```
                              EIS/PS MASTER FILE FORMATTED DUMP PROGRAM - DIAGNOSTIC REPORT                         PAGE


     PROGRAM NAME: PRPDUMP (EP0220)
     REVISION LEVEL: 1-00
     LAST UPDATE #: P-1
     DATE INCORPORATED: FEBRUARY 1, 1980


     PLANT (SEGMENT 0) RECORD COUNT:                                            33
     POINT SOURCE (SEGMENT 1) RECORD COUNT:                                     56
     POINT SOURCE POLLUTANT COUNT:                                             260
     MACHINE PROCESS (SEGMENT 2) RECORD COUNT:                                  75
     MACHINE PROCESS POLLUTANT COUNT:                                          301
     PERMITS & REGISTRATION (SEGMENT 3) RECORD COUNT:                            8

     AVERAGE NUMBER OF POINT SOURCES PER PLANT:                                1.7
     AVERAGE NUMBER OF POLLUTANTS PER POINT SOURCE:                            4.6
     AVERAGE NUMBER OF MACHINE PROCESSES PER POINT SOURCE:                     1.3
     AVERAGE NUMBER OF POLLUTANTS PER MACHINE PROCESS:                         4.0
     AVERAGE NUMBER OF PERMITS & REGISTRATION SEGMENTS PER POINT SOURCE:       0.1

     TOTAL NUMBER OF RECORDS READ:                                             172
     NUMBER OF ERRORS DETECTED:                                                  0
     NUMBER OF PAGES IN REPORT:                                                 33
```

Figure PST5-4 - continued. Sample Output

(Page 10 of 11)

```
                                              EIS/PS MASTER FILE DUMP                                              PAGE     1

-------------------------------------------------------------------------------------------------------------------------------
PLANT #      1                                                        KEY=06196005300000001000000000000000000000292
ST/CD=06 CY/CD=1960 AQCR/#=053 PL/ID=0001 DI=80047 USR/CNTL/RG=123 LCL/CNTL=04 USR/PL/ID=PL-3175      CTY=0012 UTM/ZN=12 OWNSHP=P
CNTCT=FRANKE SMYTHE    PHN=5919544376 NM/ADDR=SMYTHE ENGINE CO                                PRD=ENGINES    EMP=0014 AREA=000019
MLG/ADDR=RED OAKE, COLORADO                                   P1/FL=A P7/CMIS=PLANT NOT IN PRODUCTION 12/79 THRU /4/80
P7/FL=A EIS FLAGS:  1=A 2=A 3=A 4=A
-------------------------------------------------------------------------------------------------------------------------------
   POINT SOURCE  01                                                   KEY=06196005300000001000110000000000000000346
    SEG/DT=80047 USR/PT/ID=011 SIC/CD=1141 IPP/CD=21 UTM/HORZ=2454 UTM/VERT=09555 LAT=712121 LNG=0515152 THRPT=02030301
    NRML/OPER=10547 BULK/CAPC=00137 SPC/HT=097 STCK/HGHT=0090 STCK/DIAM=010 STCK/TMP=0100 FLW/RT=0000123 VLOCTY=00150 PLM/HGHT=0900
    PIS/CM/STK=       COMPLCE/STAT=2 COMPLCE/SCH=8110 COMPLCE/UPD=791215 ECAP=1 CNTRL/REGUL=  44  15  17 P2-P5/FLGS=AAAA PRCS/FL=
    P7/CMIS=POINT ADDED 12/14/79                                   P7/FL=A EIS FLAGS:  11=A 12=A 14=A #/POLL=02
    **  POLL/ID  EQP/CST  PRI/EQP  SEC/EQP  CNTL/EF  EMIS/EST  EMIS/MEAS  ALLOW/EMIS  UNCNTL/EMIS  EM/UTS EST/MT TS/MT EIS/FL/13  **
    **   42101   0000100    022      041      985    0000100    0000200    0000300                   4      3      3      A      **
    **   11101   0000100    022      041      985    0000100    0000200    0000300                   4      3      3      A      **
-------------------------------------------------------------------------------------------------------------------------------
       SCC   40300101     SEQ NBR  00                                 KEY=06196005300000001000124030010100000000294
        SEG/DT=80047 BEC=12301 FUEL/UTS=2 FUEL/PRC=0003000 MAX/DESGN=0004000 SUL/CT=578 ASH/CT=023 HEAT/CT=00150 CNFD/DT=1 SC/CD=6
        SC/DSC=ENGINE                          E/F/SC=A P6/FL=A P7/CMIS=SCC LEFT COMMENT P7        SCC RIGHT P7 COMMENT        P7/FL=A
        EIS/FLAGS:  21=A 22=A 24=A 25=A                                                                                    #/E/F=04
        ** POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23            POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23 **
        **  42602   000000000          2                   A                 42101   000000000          1      0000000       A      **
        **  22104   000000230          2                   A                 11101   000000000          1      0000000       A      **
-------------------------------------------------------------------------------------------------------------------------------
       SCC   40300102     SEQ NBR  02                                 KEY=06196005300000001000124030010202000000294
        SEG/DT=80047 BEC=12301 FUEL/UTS=2 FUEL/PRC=0003000 MAX/DESGN=0004000 SUL/CT=023 ASH/CT=012 HEAT/CT=00150 CNFD/DT=1 SC/CD=6
        SC/DSC=ENGINE                          E/F/SC=A P6/FL=A P7/CMIS=SCC LEFT COMMENT P7                                P7/FL=A
        EIS/FLAGS:  21=A 22=A 24=A 25=                                                                                     #/E/F=04
        ** POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23            POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23 **
        **  11101   000000050   A      1      0000000      A                 42602   000000000    .     2                    A      **
        **  42101   000000060   S      1      0000000      A                 22104   000000100          2                    A      **
-------------------------------------------------------------------------------------------------------------------------------
       PERMITS & REGISTRATION 02                                      KEY=06196005300000001000130000000000020210172
                                                                                                                          EIS **
        **  SEG  LINE                                                                                                    FLAG **
        **  DATE  NOR                                                                                                     30  **
        ** 80047   21  PLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CITED 3/1/80                               A  **
-------------------------------------------------------------------------------------------------------------------------------
   POINT SOURCE  10                                                   KEY=06196005300000001012710000000000000000346
    SEG/DT=80113 USR/PT/ID=011 SIC/CD=1141 IPP/CD=21 UTM/HORZ=2454 UTM/VERT=09555 LAT=712121 LNG=0515152 THRPT=02030301
    NRML/OPER=10547 BULK/CAPC=00137 SPC/HT=097 STCK/HGHT=0090 STCK/DIAM=010 STCK/TMP=0100 FLW/RT=0000123 VLOCTY=00151 PLM/HGHT=0900
    PIS/CM/STK=       COMPLCE/STAT=2 COMPLCE/SCH=8110 COMPLCE/UPD=791215 ECAP=1 CNTRL/REGUL=  44  15  17 P2-P5/FLGS=AAAA PRCS/FL=
    P7/CMIS=POINT ADDED 12/14/79                                   P7/FL=A EIS FLAGS:  11=A 12=A 14=A #/POLL=02
    **  POLL/ID  EQP/CST  PRI/EQP  SEC/EQP  CNTL/EF  EMIS/EST  EMIS/MEAS  ALLOW/EMIS  UNCNTL/EMIS  EM/UTS EST/MT TS/MT EIS/FL/13  **
    **   42101   0000100    022      041      985    0000100    0000200    0000300                   4      3      3      A      **
    **   11101   0000100    022      041      985    0000100    0000200    0000300                   4      3      3      A      **
```

Figure PST5-4 - continued. Sample Output

(Page 11 of 11)

EIS/PS Test 6

Submit Annual Report in NEDS Format

In this test run, data from the EIS/PS master file can be submitted to NEDS by generating NEDS point source transactions. The cataloged procedure EPRPM10 is used to execute PRPENTR (EP0200), the annual report program.

PRPENTR (EP0200) generates the annual report from the EIS/PS master file. This report consists of transactions which contain the information in the master file that has been added, changed, or deleted since the last execution of this program. These transactions can be generated in either the NEDS point source transaction format or the EIS/PS internal transaction format.

The option card for PRPENTR (EP0200) provides the user with three options: a transaction option, a warning option, and a list option. The transaction option allows the user to choose which type of transactions are to be generated (NEDS point source or EIS/PS internal transactions). If NEDS is specified in columns 1 through 4 of the option card, the program will generate NEDS point source transactions. To generate EIS/PS internal transactions, the user must specify POINT in columns 1 through 5 of the option card. If this field is left blank or if the option is specified incorrectly, program execution will be terminated.

The warning option allows the user to have the warning messages printed in the diagnostic report. If the user wants the warning messages printed, he must code FLAGW in columns 7 through 11 and leave column 12 and 13 blank. To suppress warning messages, the user must code NOFLAGW in columns 7 through 13 of the option card. If this field is left blank or if the option is specified incorrectly, the program will assume a default of NOFLAGW.

The list option allows the user to obtain listings of the input master file, the output master file, and the generated transactions. These listings are useful for confirming that the appropriate data has been submitted to NEDS and for diagnosing potential errors. To obtain listings, the user must code

LIST in columns 15 through 18 of the option card and leave columns 19 and 20 blank. To suppress the listings, the user must code NOLIST in columns 15 through 20 of the option card. If this field is left blank or if the option is specified incorrectly, the program will assume a default of NOLIST.

The output EIS/PS master file differs from the input master file in that the status flags have been set to reflect the new submission status of all the records. The output master file might contain fewer records than the input master file since some records may have been deleted.

The output transaction file, whether NEDS or EIS/PS internal transactions, contains only data which have been added, changed, or deleted since the last execution of PRPENTR (EP0200). Add transactions are generated when records have been added to the master file. Change transactions are generated when a data field in an existing record has been added, changed, or deleted. If a data field is to be deleted, the change transaction will contain an asterisk in the first position of the corresponding transaction field. Delete transactions are generated when an entire record has been flagged for deletion in the master file.

The run stream for this test run contains the JCL needed for converting data from the EIS/PS master file into NEDS point source transactions for submission to NEDS. This run stream is shown in Figure PST6-1.

The cataloged procedure executed by this run stream is EPRPM10. By using substitutable parameters, the input master file is specified as EPMSTR2 (created in Test 5) and the output master file is named EPMSTR3. The user must supply the DD (data definition) information for the option card file in the REPORT step. The options specified in this test run are NEDS, FLAGW, and LIST. Note that when NEDS transactions are being generated the EIS/PS internal transaction file EPSPSTR must be a dummy file in the REPORT step. The sample output produced by this run stream is shown in Figure PST6-2.

```
//PSTEST06 JOB     (ACCOUNTING INFO)
//*
//*    SUBMIT ANNUAL REPORT IN NEDS MODE
//*
//TEST06 EXEC FPRPM10,
//         OLDMSTR=FPMSTR2,
//         NEWMSTR=FPMSTR3
//*
//*    GENERATE THE ANNUAL REPORT
//*
//REPORT.EPSPSTR DD DUMMY
//REPORT.OPTIONS DD *
NEDS  FLAGS    LIST
```

Figure PST6-1. Run Stream

```
                                          EIS/PS ANNUAL REPORT PROGRAM  -  DIAGNOSTIC REPORT                                    PAGE     1

          PROGRAM NAME: FRPENTR (EP0200)
          REVISION LEVEL: 1-00
          LAST UPDATE #: P-1
          DATE INCORPORATED: FEBRUARY 1, 1980


          OPTION CARD: NEDS  FLAGM   LIST


          INPUT EIS/PS MASTER FILE COUNT:               172
          OUTPUT EIS/PS MASTER FILE COUNT:              172
          RECORDS DELETED FROM MASTER FILE:               0
          NEDS  OUTPUT TRANSACTIONS COUNT:              334
             ADD TRANSACTIONS COUNT:                    334
             CHANGE TRANSACTIONS COUNT:                   0
             DELETE TRANSACTIONS COUNT:                   0
          NUMBER OF ERROR MESSAGES:                       0
          NUMBER OF WARNING MESSAGES:                     0
          NUMBER OF CONDITIONAL MESSAGES:                 0
          NUMBER OF ABORT MESSAGES:                       0
          NUMBER OF DISASTER MESSAGES:                    0
```

Figure PST6-2. Sample Output

(Page 1 of 4)

```
                                                      INPUT EIS/PS MASTER FILE                                        PAGE    1

06196005300000000100000000000000000000000292  06196005300018004701 12304PL-3175      001212PFRANKE SMYTHE  59195443769ENGINES  SYMTHE EN
06196005300000000100011000000000000000000346  061960053000180047101011114121245409555712121051515202030301105470013709700900100100000001
06196005300000000100012403001010000000000294  0619600530001800472014030010100123012000300000040005780230015018ENGINE
06196005300000000100012403001020200000000294  0619600530001800472014030010202123012000300000040000230120015018ENGINE
06196005300000000100013000000000000020210172  061960053000180047301020214PLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
06196005300000000101271000000000000000000346  061960053000180113110011114121245409555712121051515202030301105470013709700900100100000001
06196005300000000101272403001010000000000294  0619600530001801132G4030010100123012000300000040005780230015018ENGINE
06196005300000000101272403001020200000000294  0619600530001801132G4030010202123012000300000040000230120015018ENGINE
06196005300000000101273000000000000020210172  06196005300018011331G02021APLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
06196005300000040100000000000000000000000292  06196005300418014701 12304PL-3175      001212PGEORGE SMYTHE  69195443769PLANTS    SYMTHE EN
06196005300000040100011000000000000000000346  061960053004180147101011114121245409555712121051515202030301105470013709700900100100000001
06196005300000040100012102023020200000000294  0619600530041801472011020230202123012000300000040001630580015 01CPLANTS
06196005300000040100012403001010000000000294  0619600530041801472014030010100123012000300000040005780230015 01PPLANTS
06196005300000040100013000000000000020210172  061960053004180147301020214PLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
06196005300000040100021000000000000000000346  061960053004180148102011114121245409555712121051515202030301105470013709700900100100000001
06196005300000040100022102023020100000000246  061960053004180149202102023020112401 0039600092500016305800978 2CPLANT
06196005300000040100022206001970500000000366  061960053004180149202206001970520001 0050000000300020 0   002902PPLANT
06196005300000040100022206001980500000000222  0619600530041800232022060019805123023000400000 02000      003701 PLANT
06196005300000040100022301032030100000000222  0619600530041801492023010320301123023000400000 03000      003701 PLANT
06196005300000040100022302002010100000000318  06196005300418014920230200201011240100396000925000034812000 9782PPLANT
06196005300000040100022302002010500000000342  061960053004180149202302002010520001005000000030000348120002901BPLANT
06196005300000040100022302002011000000000294  061960053004180023202302002011012402 003000000040 00      002901BPLANT
06196005300000040100022302005010000000000294  0619600530041800232023020050100123012000300000040009122010015018PLANT
06196005300000040100022302005020200000000294  0619600530041800232023020050202123012000300000040009122010015018PLANT
06196005300000040100022403001010100000000582  0619600530041801492024030010101123013003000000400005780230025018PLANT
06196005300000040100022403001010200000000318  0619600530041801492024030010102123023000400000300000000000037018PLANT
06196005300000040100022403001040100000000222  061960053004180149202403001040112403 000200000100 00      003701 PLANT
06196005300000040100022902020200100000000240  061960053004180149202902020200112301 003000000400 00      002502PPLANT
06196005300000040100022902020200200000000240  061960053004180149202902020200212401 000400000090 00      001502CPLANT
06196005300000040100022902020200300000000222  061960053004180149202902020200312302 000040000500 00      001502CPLANT
06196005300000040100023000000000000020210172  06196005300418002330202021APLANT NOT FOLLOWING GUIDELINES &S SET DOWN 12/14/79
06200405311270401000000000000000000000000292  062004053AQ418014701 12304PL-3175      001212PGEORGE SMYTHE  79195443769OIL ST    HANSON OI
06200405311270401000110000000000000000000346  062004053AQ4180147101011114121245409555712121051515202030301105470013709700900100100000001
06200405311270401000123020050100000000000294  062004053AQ418002320130200501001230120003000000400091220100150 1PCIL ST
06200405311270401000123020050202000000000294  062004053AQ418002320130200502021230120003000000400091220100150 1COIL ST
06200405311270401000130000000000000020210172  062004053AQ41801473010202 1APLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
06200405311270401000210000000000000000000346  062004053AQ4180148102011114121245409555712121051515202030301105470013709700900100100000001
06200405311270401000223020050100000000000294  062004053AQ4180023202302005010012301200030000004000912201001501BPLANT
06200405311270401000223020050202000000000246  062004053AQ4180023202302005020212301200030000004000912201001501BPLANT
06200405311270401000230000000000000020210172  062004053AQ418014830202021APLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
06200405311273301000000000000000000000000292  062004053AQW18004701 12304PL-3175      001212PGEORGE SMYTHE  29195443769ENGINES  HANSON EN
06200405311273301012710000000000000000000346  062004053AQW180113110011114121245409555712121051515202030301105470013709700900100100000001
06200405311273301012723020050100000000000294  062004053AQW18002321030200501001230120003000000400091220100150 1BENGINE
06200405311273301012723020050202000000000294  062004053AQW18002321030200502021230120003000000400091220100150 1BENGINE
06200405311273301012730000000000000020210172  062004053AQW1801133102021APLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
06200405311273301111210000000000000000000346  062004053AQW1803451AB011114121245409555712121051515202030301105470013709700900100100000001
06200405311273301111223020050100000000000294  062004053AQW1800232AB302005010012301200030000004000912201001501BENGINE
06200405311273301111223020050202000000000294  062004053AQW1800232AB302005020212301200030000004000912201001501BENGINE
06200405311273301111230000000000000020210172  062004053AQW1800233AB02021APLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
08000524008000001000000000000000000000000292  080006240800175000 01                        18PH SMITH                                     SAINT AGN
08000824008000001000110000000000000000000452  08000824080017700 0101    2121  922890466                                    0018010036000012
08000524005000001100121320050300000000000318  08000824080014006020110200503 00       00001330000030025000001081P172003 6.CIGAR MFG
```

Figure PST6-2 - continued. Sample Output

(Page 2 of 4)

BEST DOCUMENT AVAILABLE

```
                                                                          OUTPUT EIS/PS MASTER FILE                                      PAGE    1

06196005300000001000000000000000000000292  06196005300018004701 12304PL-3175      001212PFRANKE SMYTHE  59195443769ENGINES  SYMTHE EN
06196005300000001000110000000000000000346  06196005300018004710101111412124540955571212105151520203030110547001370970090010010000001
06196005300000001000124030010100000000294  0619600530001800472014030010100123012000300000004000578023001501BENGINE
06196005300000001000124030010202000000294  0619600530001800472014030010202123012000300000004000023012001501BENGINE
06196005300000001000130000000000020210172  06196005300018004730102021SPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
06196005300000001012710000000000000000346  06196005300018011311001111412124540955571212105151520203030110547001370970090010010000001
06196005300000001012724030010100000000294  0619600530001801132104030010100123012000300000004000578023001501BENGINE
06196005300000001012724030010202000000294  0619600530001801132104030010202123012000300000004000023012001501BENGINE
06196005300000001012730000000000020210172  06196005300018011331002021SPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
06196005300000401000000000000000000000292  06196005300418014701 12304PL-3175      001212PGEORGE SMYTHE  69195443769PLANTS   SYMTHE EN
06196005300000401000110000000000000000346  06196005300418014710101111412124540955571212105151520203030110547001370970090010010000001
06196005300000401000121020230202000000294  0619600530041801472011020230202123012000300000004000163058001501CPLANTS
06196005300000401000124030010100000000294  0619600530041801472014030010100123012000300000004000578023001501PPLANTS
06196005300000401000130000000000020210172  06196005300418014730102021SPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
06196005300000401000210000000000000000346  06196005300418014810201111412124540955571212105151520203030110547001370970090010010000001
06196005300000401000221020230201000000240  061960053004180149202102023020112401 00396000925000163058009782CPLANT
06196005300000401000222060019705000000366  061960053004180149202206001970520001 005000000003000200    002902PPLANT
06196005300000401000222060019805000000222  0619600530041800232022060019805123023000400000002000       003701 PLANT
06196005300000401000223010320301000000222  0619600530041801492023010320301123023000400000003000       003701 PLANT
06196005300000401000223020020101000000318  06196005300418014920230200201011240100396000925000348120009782PPLANT
06196005300000401000223020020105000000342  061960053004180149202302002010520001005000000030000348120002901BPLANT
06196005300000401000223020020110000000294  061960053004180023202302002011012402 0030000000004000       002901BPLANT
06196005300000401000223020050100000000294  0619600530041800232023020050100123012000300000004000912201001501BPLANT
06196005300000401000223020050202000000294  0619600530041800232023020050202123012000300000004000912201001501BPLANT
06196005300000401000224030010101000000582  0619600530041801492024030010101123013003000000040000578023002501BPLANT
06196005300000401000224030010102000000318  0619600530041801492024030010102123023000400000030000000000003701BPLANT
06196005300000401000224030010401000000222  061960053004180149202403001040112403 0002000010000       003701 PLANT
06196005300000401000229020202001000000240  061960053004180149202902020200112301 0030000040000       002502PPLANT
06196005300000401000229020202002000000240  061960053004180149202902020200212401 0004000009000       001502CPLANT
06196005300000401000229020202003000000222  061960053004180149202902020200312302 0000400050000       001502CPLANT
06196005300000401000230000000000020210172  06196005300418002330202021SPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79
06200405311270401000000000000000000000292  062004053A0418014701 12304PL-3175      001212PGEORGE SMYTHE  79195443769OIL ST   HANSON OI
06200405311270401000110000000000000000346  062004053A0418014710101111412124540955571212105151520203030110547001370970090010010000001
06200405311270401000123020050100000000294  062004053A041800232013020050100123012000300000004000912201001501POIL ST
06200405311270401000123020050202000000294  062004053A041800232013020050202123012000300000004000912201001501COIL ST
06200405311270401000130000000000020210172  062004053A0418014730102021SPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
06200405311270401000210000000000000000346  062004053A0418014810201111412124540955571212105151520203030110547001370970090010010000001
06200405311270401000223020050100000000294  062004053A041800232023020050100123012000300000004000912201001501BPLANT
06200405311270401000223020050202000000246  062004053A041800232023020050202123012000300000004000912201001501BPLANT
06200405311270401000230000000000020210172  062004053A0418014830202021SPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
06200405311273301000000000000000000000292  062004053A0418004701 12304PL-3175      001212PGEORGE SMYTHE  29195443769ENGINES  HANSON EN
06200405311273301012710000000000000000346  062004053A0418011311001111412124540955571212105151520203030110547001370970090010010000001
06200405311273301012723020050100000000294  062004053A041800232103020050100123012000300000004000912201001501BENGINE
06200405311273301012723020050202000000294  062004053A041800232103020050202123012000300000004000912201001501BENGINE
06200405311273301012730000000000020210172  062004053A0418011331002021SPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
06200405311273301111210000000000000000346  062004053A041803451AB01111412124540955571212105151520203030110547001370970090010010000001
06200405311273301111223020050100000000294  062004053A041800232AB3020050100123012000300000004000912201001501BENGINE
06200405311273301111223020050202000000294  062004053A041800232AB3020050202123012000300000004000912201001501BENGINE
06200405311273301111230000000000020210172  062004053A041800233AB02021SPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
08000824008000001300000000000000000000292  08000824080017500001                         18PR SMITH                             SAINT AGN
08000824008000001300110000000000000000252  08000824080017700010 1   2121   922890400                                    0018010036000012
08000824008000001300121020050300000000318  0800082408001800602011020050300        003013300003002500000106 1P1720036.CIGAR MFG
```

Figure PST6-2 - continued. Sample Output

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```
                                                     NEDS  OUTPUT TRANSACTIONS                                                  PAGE   1

061960053000100121280SYMTHE ENGINE CO                        FRANKE SMYTHP    AP1
0619600530001  80        PLANT NOT IN PRODUCTION 12/79 THRU /4/80             AP7
0619600530001018011412124540955500900100100000001230900                       AP2
0619600530001018000137022041                  022041985         985           AP3
0619600530001018002030301105470000100                    00001003   3097      AP4
0619600530001018000000300                    0000300281107912151  44  15   17 AP5
06196005300010180        POINT ADDED 12/14/79                                 AP7
06196005300010180403001010003000000400057802300150ENGINE               B1     AP6
0619600530001018040300101SCC LEFT COMMENT P7      SCC RIGHT P7 COMMENT        AP7
06196005300010180403001020003000000400002301200150ENGINE               B1     AP6
0619600530001018040300102SCC LEFT COMMENT P7                                  AP7
0619600530001108011412124540955500900100100000001230900                       AP2
0619600530001108000137022041                  022041985         985           AP3
0619600530001108002030301105470000100                    00001003   3097      AP4
0619600530001108000000300                    0000300281107912151  44  15   17 AP5
06196005300011080        POINT ADDED 12/14/79                                 AP7
06196005300011080403001010003000000400057802300150ENGINE               B1     AP6
0619600530001108040300101SCC LEFT COMMENT P7      SCC RIGHT P7 COMMENT        AP7
06196005300011080403001020003000000400002301200150ENGINE               B1     AP6
0619600530001108040300102SCC LEFT COMMENT P7                                  AP7
061960053004100121280SYMTHE ENGINE CO                        GEORGE SMYTHP    AP1
0619600530041  80        PLANT NOT IN PRODUCTION 12/79 THRU /4/80             AP7
0619600530041018011412124540955500900100100000001230900                       AP2
0619600530041018000137                  022041022041         985985           AP3
061960053004101800203030110547                        00002300000230  33097   AP4
06196005300410180                     00003000000300281107912151  44  15   17 AP5
06196005300410180        POINT ADDED 12/14/79                                 AP7
06196005300410180102023020003000000400016305800150PLANTS               C1     AP6
0619600530041018010202302SCC LEFT COMMENT P7                                  AP7
06196005300410180403001010003000000400057802300150PLANTS               P1     AP6
0619600530041018040300101SCC LEFT COMMENT P7      SCC RIGHT P7 COMMENT        AP7
0619600530041028011412124540955500900100100000001230900                       AP2
0619600530041028000137022041                  022041985         985           AP3
0619600530041028002030301105470000051                    00002303   2097      AP4
0619600530041028000000300                    0000503281107912151  44  15   17 AP5
06196005300410280        POINT ADDED 12/14/79                                 AP7
06196005300410280102023020039600092500016305800978PLANT                C2     AP6
061960053004102802060019700500000003000200   00290PLANT                P2     AP6
0619600530041028020600198000400000002000     00370PLANT                 1     AP6
0619600530041028030103203000400000003000     00370PLANT                 1     AP6
06196005300410280302002010396000925000034812000978PLANT                P2     AP6
06196005300410280302002010500000000300003481200029OPLANT               B1     AP6
0619600530041028030200201003000000004000     00290PLANT                B1     AP6
06196005300410280302005010003000000400091220100150PLANT                B1     AP6
0619600530041028030200501SCC LEFT COMMENT P7      SCC RIGHT P7 COMMENT        AP7
06196005300410280302005020003000000400091220100150PLANT                B1     AP6
0619600530041028030200502SCC LEFT COMMENT P7                                  AP7
06196005300410280403001010030000004000057802300250PLANT                B1     AP6
06196005300410280403001010004000000300000000000370PLANT                B1     AP6
0619600530041028040300104000200000010000     00370PLANT                 1     AP6
061960053004102809020202000300000040000      00250PLANT                P2     AP6
061960053004102809020202000300000009000      00150PLANT                C2     AP6
```

Figure PST6-2 - continued. Sample Output

(Page 4 of 4)

EIS/PS Test 7

Generate Master File Emission Factor Transactions to Update the Emission Factor Information in the Master File

In this test run, internal transactions are generated from the master file and emission factor information is inserted into these transactions using the cataloged procedure EPMSM10. This procedure executes PMSEFGN (EP0130), the master file emission factor transaction generator program; PSREFIN (EP0090), the master file internal transaction pre-insertion sort program; and PMSEFIN (EP0100), the master file internal transaction emission factor insertion program.

PMSEFGN (EP0130) generates EIS/PS 21 and 23 internal transactions to update the emission factor information in the master file SCC records. A 21 change internal transaction is generated for each SCC record in the master file that satisfies the origin/source combination and date criteria (both are specified on an option card) and for which the matching emission factor file record satisfies the date criterion. One 23 change internal transaction is generated for each of the pollutant ID's contained in the master file record. The date of the generated transactions will be the same as the date specified on the option card.

An option card is used to specify the origin/source combination and the date; it is also used to specify whether or not the warning messages should be printed.

The user _must_ specify an origin/source combination to be satisfied by both the emission factor file records and the master file records. If internal transactions are desired for Federal-origin SCC records, an origin of 'F' must be coded in column 1 of the option card; for State-origin records, an 'S' must be coded in column 1; and for Local-origin records, an 'L' must be coded in column 1 and the desired source in column 2.

The user _must_ also specify a date to be satisfied by both the emission factor file records and the master file records. The date of the emission factor file record must be greater than or equal to the specified date and the date of the master file record must be less than the specified date for a transaction to be generated. The date is specified by coding a five-digit Julian date in columns 8 through 12 of the option card, where the first two digits represent the year and the last three, the day within the year. If no date is specified, or if the date is not numeric, program execution will be terminated.

If FLAGW is coded in the warning message suppression field (columns 18 through 24) of the option card, all warning messages will be printed in the diagnostic report; if NOFLAGW is coded, no warning messages will be printed. If this field is left blank or improperly coded, a default of NOFLAGW is assumed.

PMSEFGN (EP0130) generates an option card which is passed to PMSEFIN (EP0100) and used as the input option card. The options specified are as follows:

1. Insert sulfur and ash contents
2. Insert emission factor
3. EDAT-XXYYY, where XXYYY is equal to the date specified for PMSEFGN (EP0130)
4. Replace the date of the transaction with the emission factor file date
5. The same warning message suppression option as specified for PMSEFGN (EP0130)

The programs PSREFIN (EP0090) and PMSEFIN (EP0100) are used to insert information from the emission factor file into the generated internal transactions. For a description of these two programs refer to Test 4. Note that in this test the option card input to PMSEFIN (EP0090) is supplied by PMSEFGN (EP0130).

The run stream for this test run contains the JCL needed for generating internal transactions from the master file and then inserting emission factor information into these transactions. This run stream is shown in Figure PST7-1.

The cataloged procedure executed by this run stream is EPMSM10. Substitutable parameters are used to specify EPMSTR3 (created in Test 6) as the input master file, EPEMFC2 (created in Test 3) as the input emission factor file, and EPINTR1 as the generated internal transaction file. The DD (data definition) information for the option card file in the GENER step must be supplied by the user. The options specified in this test are F, 80060, and FLAGW. Refer to Figure PST7-2 for the sample output produced by this test run.

```
//PSTEST07 JOB     (ACCOUNTING INFO)
//*
//*   GENERATE MASTER FILE EMISSION FACTOR TRANSACTIONS
//*
//TEST7A EXEC EPMSM10,
//         MSTRFIL=EPMSTR3,
//         EMFCFIL=EPEMFC2,
//         NEWINTR=EPINTR1
//*
//*   CREATE EMISSION FACTOR INTERNAL TRANSACTIONS
//*   FROM THE TEST 5 MASTER FILE
//*
//GENER.OPTIONS DD *
F       M0060      FLAG*
```

Figure PST7-1. Run Stream

```
                         MASTER FILE EMISSION FACTOR TRANSACTION GENERATOR PROGRAM                              PAGE

PROGRAM NAME: PMSEFGN (EP0130)
REVISION LEVEL:  1-00
LAST UPDATE #:   P-1
DATE INCORPORATED:  FEBRUARY 1, 1980


OPTIONS IN EFFECT:  FLAGN

          ORIGIN AND SOURCE SPECIFIED:  FEDERAL

          DATE SPECIFIED:  80060


0619600530000040100022206001980500000
          *** PMSEFGN 004 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD FOR ORIGIN/SOURCE AND DATE SPECIFIED

0619600530000040100022302002011000000
          *** PMSEFGN 004 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD FOR ORIGIN/SOURCE AND DATE SPECIFIED

0619600530000040100022403001040100000
          *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE

0800082400800000100012102005030000000
          *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE

0800082400800002000121020050300000000
          *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE

0800082400800005000121020050300000000
          *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE

0800080240080000000801230501601000000
          *** PMSEFGN 004 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD FOR ORIGIN/SOURCE AND DATE SPECIFIED

0800080240080000100012305002010000000
          *** PMSEFGN 004 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD FOR ORIGIN/SOURCE AND DATE SPECIFIED
```

Figure PST7-2. Sample Output (Page 1 of 4)

BEST DOCUMENT AVAILABLE

```
                         MASTER FILE EMISSICI FACTOR TRANSACTION GENERATOR PROGRAM                                PAGE   6


340040203000000008000121020050300000000
        *** PM3EFGN 005 WARNING - NO TRANSACTI)I GENERATED DUE TO MASTER FILE DATE


PROGRAM NAME: PMSEFGN (EP0130)
REVISION LEVEL:  1-00
LAST UPDATE #:   P-1
DATE INCORPORATED:  FEBRUARY 1, 1980



NUMBER OF MASTER FILE RECORDS READ:                172
NUMBER OF EMISSION FACTOR RECORDS READ:            638
NUMBER OF 21 TRANSACTIONS CREATED:                  10
NUMBER OF 23 TRANSACTIONS CREATED:                  38
NUMBER OF WARNING MESSAGES:                         49
NUMBER OF CONDITIONAL MESSAGES:                      0
NUMBER OF ERROR MESSAGES:                            0
NUMBER OF ABORT MESSAGES:                            0
NUMBER OF DISASTER MESSAGES:                         0



 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -



        EIS/PS MASTER FILE INTERNAL TRANSACTION PRE-INSERTION SORT PROGRAM  -  DIAGNOSTIC REPORT          PAGE 1

PROGRAM NAME: PSREFIN (EP0090)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF INPUT TRANSACTIONS:          48
NUMBER OF OUTPUT TRANSACTIONS:         48
```

Figure PST7-2 - continued. Sample Output (Page 2 of 4)

```
                     MASTER FILE INTERNAL TRANSACTION EMISSION FACTOR INSERTION PROGRAM                     PAGE


PROGRAM NAME: PMSEFIN (EP0100)
REVISION LEVEL:  1-00
LAST UPDATE #:   P-1
DATE INCORPORATED:  FEBRUARY 1, 1980


OPTIONS IN EFFECT:  FLAGW

          FIELDS SELECTED FOR INSERTIONS:  SUL   ASH  EMISSION     EDAT 80060

          FIELDS TO BE OVERRIDDEN:  NONE


FLAGW   SUL I  ASH I  EMISSION I  EDAT 80060                              R


          *** PMSEFIN 012 ERROR - NO VALID OVERRIDES SPECIFIED - NO OVERRIDES ASSUMED


  SULFUR I  N  ASH I  N  EMISSION FACTOR I  N                    DATE: EMISSION FACTOR 80060  TRANSACTION   N


0619600530000040100022302005010000000212061960053004180060                       F              21C
          *** PMSEFIN 006 WARNING - NO INSERTION DUE TO EMISSION FACTOR FILE DATE

0620040531127040100012302005010000000212062004053004180060                       F              21C
          *** PMSEFIN 006 WARNING - NO INSERTION DUE TO EMISSION FACTOR FILE DATE

0620040531127330111122302005010000000212062004053004180060                       F              21C
          *** PMSEFIN 006 WARNING - NO INSERTION DUE TO EMISSION FACTOR FILE DATE

0620040531127330101272302005010000000212062004053004180060                       F              21C
          *** PMSEFIN 006 WARNING - NO INSERTION DUE TO EMISSION FACTOR FILE DATE
```

Figure PST7-2 - continued. Sample Output
(Page 3 of 4)

```
 SULFUR I  N  ASH I  N  EMISSION FACTOR I  N                                   DATE: EMISSION FACTOR 80060  TRANSACTION   N


0620040531127040100012302005020200000232062004053004180060             F 42602                                   23C
          *** PMSEFIN 006 WARNING - NO INSERTION DUE TO EMISSION FACTOR FILE DATE

06200405311273301012723020050202000002320620040530W180060             F 42602                                   23C
          *** PMSEFIN 006 WARNING - NO INSERTION DUE TO EMISSION FACTOR FILE DATE

0619600530000040100022302005020200000232061960053004180060             F 42602                                   23C
          *** PMSEFIN 006 WARNING - NO INSERTION DUE TO EMISSION FACTOR FILE DATE

06200405311273301111223020050202000002320620040530W180060             F 42602                                   23C
          *** PMSEFIN 006 WARNING - NO INSERTION DUE TO EMISSION FACTOR FILE DATE


PROGRAM NAME: PMSEFIN (EP0100)
REVISION LEVEL:  1-00
LAST UPDATE #:   P-1
DATE INCORPORATED:  FEBRUARY 1, 1980


NUMBER OF INPUT TRANSACTIONS:                    48
NUMBER OF EMISSION FACTOR RECORDS READ:         294
NUMBER OF INSERTIONS MADE:                       10
NUMBER OF OUTPUT TRANSACTIONS:                   48
NUMBER OF 23 TRANSACTIONS CREATED:                0
NUMBER OF WARNING MESSAGES:                      38
NUMBER OF CONDITIONAL MESSAGES:                   0
NUMBER OF ERROR MESSAGES:                         1
NUMBER OF ABORT MESSAGES:                         0
NUMBER OF DISASTER MESSAGES:                      0
```

Figure PST7-2 - continued. Sample Output
(Page 4 of 4)

EIS/PS Test 8

Edit EIS/PS Master File Transactions

In this test run, EIS/PS master file transactions are edited using the cataloged procedure EPEDT10, which executes PSRMFTR (EP0070), the master file transaction sort program; and PEDMSTR (EP0080), the master file transaction edit program. Test 5 provides a discussion of each of these programs.

The run stream for this test run contains the JCL needed to edit master file transactions. Figure PST8-1 shows this run stream.

The cataloged procedure executed by this run stream is EPEDT10. A substitutable parameter names EPINTR2 as the output internal transaction file. The DD (data definition) information for the input master file transaction file in the SORT step and the option card file in the EDIT step must be supplied by the user. The option specified in the EDIT step is 80. Sample output for this test run is shown in Figure PST8-2.

```
//PSTESTAB JOB    (ACCOUNTING INFO)
//*
//*   EDIT ETS/PS MASTER FILE TRANSACTIONS
//*
//TESTBA EXEC EPEDIT10,
//     INTRTRN=EPINTR2
//*
//*   EDIT TRANSACTIONS FOR UPDATING THE MASTER IN THE NEXT
//*   RUN
//*
//SORT.INPUT DD *
061960053000180065SMYTHE ENGINE COMPANY INC.                      0025000035 02C
061960053000180065PLANT WILL START PRODUCTION 05/01/80                       04C
06196005300018006501431010102250022041907000105000021000003000433            13A
06196005300018006501PULL 43101 ADDED 03/21/80                                14C
061960053000180065014030010202  ENGINE EXHAUST FUMES                         22C
061960053000180065014030010202  22104                                        23D
061960053000180065014030010202POLLUTANT 22104 DELETED ON                     24C
061960053000180065014030010202 03/21/80                                      25C
0619600530001800650102001LTHIS COMMENT ADDED 03/21/80                        30A
0619600530001800650102021LPLANT NOW FOLLOWING GUIDELINES AS SET DOWN 12/14/7930C
0619600530001800650102021R  WILL NOT BE CITED FOR VIOLATIONS                 30C
0619600530001800650102022LTHIS IS THE END OF THIS COMMENT                    30A
0619600530041800650142101                                                    13D
06196005300418006501PULL 42101 DELETED 03/21/80                              14C
062004053A04180065                                                           01D
06000624080018006501                                                         11D
060080240800280065013050200100                                               21D
062004053A041800651002021                                                    30D
180060224000380065                                       9195551212          01C
1800602240003800652800 PARK AVENUE, JEFFERSON N.C.                           03C
180060224000380065ADDRESS & PHONE NUMBER ADDED 03/21/80                      04C
18006022400038006503                               180018003211              12C
18006022400038006503COMPLIANCE DATA & ECAP ADDED 03/21/80                    14C
180060224000380065031030020900  22301000040500A                              23A
180060224000380065031030020900PULL 22301 ADDED 03/21/80                      24A
1800602240003800650300001LNO MORE CHANGES, ADDITIONS, OR DELETIONS WERE MADE 30A
1800602240003800650300001RBEYOND THIS POINT IN THE FILE                      30A
//EDIT.OPTIONS DD *
RU
```

Figure PST8-1. Run Stream

```
                    EIS/PS MASTER FILE TRANSACTION SORT PROGRAM  -  DIAGNOSTIC REPORT                              PAGE      1

 PROGRAM NAME: PSRMFTR (EP0070)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS:       27
NUMBER OF OUTPUT TRANSACTIONS:       27
```

```
                      EIS/PS MASTER FILE TRANSACTION EDIT PROGRAM  -  DIAGNOSTIC REPORT                PAGE      1

PROGRAM NAME: PEDMSTR (EP0080)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

OPTIONS IN EFFECT: NOFLAGN   NOLIST
CONTROL YEAR: 80

80
         *** PEDMSTR 003 CONDITIONAL - INVALID FLAGN OPTION, DEFAULT (NOFLAGN) ASSUMED
         *** PEDMSTR 004 CONDITIONAL - INVALID LIST OPTION, DEFAULT (NOLIST) ASSUMED

1800602240003800650310300209 00  22301000040500A                              23A
                              B
         *** PEDMSTR 106 ERROR - COLUMN 31 - INVALID EMF ORIGIN, CARD REJECTED

NUMBER OF TRANSACTIONS READ:                        27
NUMBER OF INTERNAL TRANSACTIONS WRITTEN:            26
NUMBER OF TRANSACTIONS REJECTED:                     1
NUMBER OF ABORT MESSAGES:                            0
NUMBER OF ERROR MESSAGES:                            1
NUMBER OF CONDITIONAL MESSAGES:                      2
NUMBER OF WARNING MESSAGES:                          0
```

Figure PST8-2. Sample Output

EIS/PS Test 9

Concatenate Internal Transactions, Update the Master File, and Produce a Master File Detailed Report

In this test run, two separate files of internal transactions are concatenated using the cataloged procedure EPMST20 which executes PMSTCON (EP0190), the internal transaction file concatenation program. The EIS/PS master file is updated with the concatenated transactions using the cataloged procedure EPFMM10 which executes PSRINTR (EP0110), the master file internal transaction sort program; and PFMMSTR (EP0120), the master file maintenance program. Also, a detailed report of the updated master file is produced using the cataloged procedure EPRPM20 which executes PRPMSTR (EP0210), the master file detailed report program.

PMSTCON (EP0190) allows the user to concatenate two internal transaction files. The resulting output file must be sorted prior to its use in other EIS/PS programs.

The master file maintenance programs, PSRINTR (EP0110) and PFMMSTR (EP0120), were discussed in EIS/PS Test 4.

PRPMSTR (EP0210) produces a detailed report of the EIS/PS master (or answer) file. The master (or answer) file is listed with one point source record and its corresponding machine process records per page. Following each point source page, the corresponding permits and registration records are listed with one set of records per page. If a single plant has more than one point source or more than one set of permits and registration records, the plant/location information is repeated for each point source page and each permits and registration page. This program can be used to produce a detailed report of any file in EIS/PS master file format.

The run stream for this test run contains the JCL needed for concatenating internal transactions, updating the master file, and producing a detailed report. This run stream is shown in Figure PST9-1 and the sample output from this run stream is shown in Figure PST9-2.

The first cataloged procedure to be executed is EPMST20. Substitutable parameters are used to specify EPINTR1 (created in EIS/PS Test 7) and EPINTR2 (created in EIS/PS Test 8) as the input internal transaction files and EPINTR3 as the concatenated internal transaction file.

Next, the procedure EPFMM10 is executed. The input master file is EPMSTR3 (created in EIS/PS Test 6), the input internal transaction file is EPINTR3 (created in the previous step), and the newly updated master file is named EPMSTR4. The user must supply the DD (data definition) information for the opton card file in the UPDATE step. The options used in this test are 80 and LIST.

EPRPM20 is the final cataloged procedure to be executed. EPMSTR4, the master file which was created in the previous step is used as the input master file.

```
//PSTEST09 JOB     (ACCOUNTING INFO)
//*
//*   CONCATENATE INTERNAL TRANSACTIONS, UPDATE THE MASTER FILE,
//*   AND PRODUCE A MASTER FILE DETAILED REPORT
//*
//TEST9A EXEC EPMST20,
//         INTRN1=EPINTR1,
//         INTRN2=EPINTR2,
//         CONCAT=EPINTR3
//*
//*   CONCATENATE THE INTERNAL TRANSACTIONS FROM
//*   TEST RUNS 7 AND 8
//*
//TEST9B EXEC EPEMM10,
//         OLDMSTR=EPMSTR3,
//         NEWMSTR=EPMSTR4,
//         INTRTRN=EPINTR3
//*
//*   UPDATE THE MASTER FILE FROM TEST 8 WITH THE
//*   INTERNAL TRANSACTIONS MERGED IN STEP A OF THIS
//*   TEST
//*
//UPDATE.OPTIONS DD *
RU        LIST
//TEST9C EXEC EPRPM20,
//         MSTRFIL=EPMSTR4
//*
//*   PRODUCE A DETAILED LIST OF THE MASTER FILE
//*   CREATED IN STEP B
//*
```

Figure PST9-1. Run Stream

```
                    EIS/PS INTERNAL TRANSACTION FILE CONCATENATION PROGRAM  -  DIAGNOSTIC REPORT              PAGE 1


PROGRAM NAME: PMSTCON (EP0190)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF INPUT TRANSACTIONS FROM FILE 1:        43
NUMBER OF INPUT TRANSACTIONS FROM FILE 2:        31
TOTAL NUMBER OF INPUT TRANSACTIONS:              74
NUMBER OF OUTPUT TRANSACTIONS:                   74
```

```
---------------------------------------------------------------------------------------------------------
```

```
                              EIS/PS MASTER FILE INTERNAL TRANSACTION SORT PROGRAM                  PAGE 1


PROGRAM NAME: PSRINTR (EP0110)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF INPUT TRANSACTIONS:       74
NUMBER OF OUTPUT TRANSACTIONS:      74
```

Figure PST9-2. Sample Output

(Page 1 of 9)

```
                        EIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSSAGES                              PAGE      1
PROGRAM NAME: PFMMSTR (EP0120)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD

   CONTROL DATE IS 80    ,  ERROR OPTION IS NOFLAG,  LIST OPTION IS LIST


061960053000004010002100000000000000000346  06196JJ53004180148102011114121245409555712121051515202030301105470013709700900100100000001
                                          *** PFMMSTR 004 ERROR - FIELDS MISSING FOR EMISSIONS CALCULATIONS, 0 USED FOR ESTIMATE

061960053000004010002100000000000000000346  06196JJ53004180148102011114121245409555712121051515202030301105470013709700900100100000001
                                          *** PFMMSTR 004 ERROR - FIELDS MISSING FOR EMISSIONS CALCULATIONS, 0 USED FOR ESTIMATE

0620040531127040100012302005010000000212062004053A04180060                                F                  21C
                                          *** PFMMSTR 005 ERROR - NO MATCH ON MASTER FILE FOR TRANSACTION, CARD REJECTED

0620040531127040100012302005010000000232062004053A04180061              F 22104000002403                    23C
                                          *** PFMMSTR 005 ERROR - NO MATCH ON MASTER FILE FOR TRANSACTION, CARD REJECTED

0620040531127040100012302005010000000232062004053A04180060              F 11101                             23C
                                          *** PFMMSTR 005 ERROR - NO MATCH ON MASTER FILE FOR TRANSACTION, CARD REJECTED

0620040531127040100012302005010000000232062004053A04180060              F 42101                             23C
                                          *** PFMMSTR 005 ERROR - NO MATCH ON MASTER FILE FOR TRANSACTION, CARD REJECTED

0620040531127040100012302005010000000232062004053A04180060              F 42602                             23C
                                          *** PFMMSTR 005 ERROR - NO MATCH ON MASTER FILE FOR TRANSACTION, CARD REJECTED

0620040531127040100012302005020200000212062004053A04180060                                F                  21C
                                          *** PFMMSTR 005 ERROR - NO MATCH ON MASTER FILE FOR TRANSACTION, CARD REJECTED

0620040531127040100012302005020200000232062004053A04180060              F 42101                             23C
                                          *** PFMMSTR 005 ERROR - NO MATCH ON MASTER FILE FOR TRANSACTION, CARD REJECTED

0620040531127040100012302005020200000232062004053A04180060              F 42602                             23C
                                          *** PFMMSTR 005 ERROR - NO MATCH ON MASTER FILE FOR TRANSACTION, CARD REJECTED

0620040531127040100012302005020200000232062004053A04180061              F 22104000002403                    23C
                                          *** PFMMSTR 005 ERROR - NO MATCH ON MASTER FILE FOR TRANSACTION, CARD REJECTED

0620040531127040100012302005020200000232062004053A04180060              F 11101                             23C
```

Figure PST9-2 - continued. Sample Output (Page 2 of 9)

```
                    EIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSSAGES                        PAGE     3
NUMBER OF INPUT TRANSACTIONS READ                                74
NUMBER OF DISASTERS DETECTED                                      0
NUMBER OF ABORTS DETECTED                                         0
NUMBER OF ERRORS DETECTED                                        21
NUMBER OF CONDITIONALS DETECTED                                   0
NUMBER OF WARNINGS DETECTED                                       0
NUMBER OF TRANSACTIONS REJECTED                                  19
NUMBER OF POINT SOURCE FILE RECORDS READ IN                     172
NUMBER OF POINT SOURCE FILE RECORDS WRITTEN OUT                 175
```

Figure PST9-2 - continued. Sample Output
(Page 3 of 9)

```
                              EIS FILE MAINTENANCE PROGRAM - TRANSACTION LISTING                               PAGE     1
0619600530000000100000000000000000000022061960053300180065SMYTHE ENGINE COMPANY INC.                       0025000035 02C
0619600530000000100000000000000000000042061960053300180065PLANT WILL START PRODUCTION 05/01/80                        04C
061960053000000010001100000000000000013106196005330018006501431010102250022041907000105000021000003000433             13A
06196005300000001000110000000000000001420619600533001800650 1POLL 43101 ADDED 03/21/80                                 14C
0619600530000000100012403001020200000222061960053300180065014030010202  ENGINE EXHAUST FUMES                          22C
0619600530000000100012403001020200000230061960053300180065014030010202  22104                                         23C
0619600530000000100012403001020200000242061960053300180065014030010202POLLUTANT 22104 DELETED ON                      24C
0619600530000000100012403001020200000252061960053300180065014030010202 03/21/80                                       25C
06196005300000001000130000000000020013010619600533001800650102001LTHIS COMMENT ADDED 03/21/80                         30A
06196005300000001000130000000000020213020619600533001800650102021LPLANT NOW FOLLOWING GUIDELINES AS SET DOWN 12/14/7930C
06196005300000001000130000000000020213020619600533001800650102021R  WILL NOT BE CITED FOR VIOLATIONS                  30C
06196005300000001000130000000000020223010619600533001800650102022LTHIS IS THE END OF THIS COMMENT                     30A
061960053000004010001100000000000000013006196005330041800650142101                                                    13C
061960053000004010001100000000000000014206196005330041800650 1POLL 42101 DELETED 03/21/80                             14C
06196005300000401000223020050100000002120619600533004180060                                           F               21C
06196005300000401000223020050100000002320619600533004180061            F 22104000002403                                23C
06196005300000401000223020050100000002320619600533004180060            F 11101                                         23C
06196005300000401000223020050100000002320619600533004180060            F 42602                                         23C
06196005300000401000223020050100000002320619600533004180060            F 42101                                         23C
06196005300000401000223020050202000002120619600533004180060                                           F               21C
06196005300000401000223020050202000002320619600533004180060            F 11101                                         23C
06196005300000401000223020050202000002320619600533004180060            F 42602                                         23C
06196005300000401000223020050202000002320619600533004180060            F 42101                                         23C
06196005300000401000223020050202000002320619600533004180061            F 22104000002403                                23C
06200405311270401000000000000000000000100620040533A04180065                                                           01D
06200405311270401000123020050100000002120620040533A04180060                                           F               21C
06200405311270401000123020050100000002320620040533A04180061            F 22104000002403                                23C
06200405311270401000123020050100000002320620040533A04180060            F 11101                                         23C
06200405311270401000123020050100000002320620040533A04180060            F 42101                                         23C
06200405311270401000123020050100000002320620040533A04180060            F 42602                                         23C
06200405311270401000123020050202000002120620040533A04180060                                           F               21C
06200405311270401000123020050202000002320620040533A04180060            F 42101                                         23C
06200405311270401000123020050202000002320620040533A04180060            F 42602                                         23C
06200405311270401000123020050202000002320620040533A04180061            F 22104000002403                                23C
06200405311270401000123020050202000002320620040533A04180060            F 11101                                         23C
06200405311270401000223020050100000002120620040533A04180060                                           F               21C
06200405311270401000223020050100000002320620040533A04180060            F 11101                                         23C
06200405311270401000223020050100000002320620040533A04180060            F 42101                                         23C
06200405311270401000223020050100000002320620040533A04180061            F 22104000002403                                23C
06200405311270401000223020050100000002320620040533A04180060            F 42602                                         23C
06200405311270401000223020050202000002120620040533A04180060                                           F               21C
06200405311270401000223020050202000002320620040533A04180060            F 11101                                         23C
06200405311270401000223020050202000002320620040533A04180061            F 22104000002403                                23C
06200405311273301012723020050100000002120620040533A0W180060                                           F               21C
06200405311273301012723020050100000002320620040533A0W180061            F 22104000002403                                23C
06200405311273301012723020050100000002320620040533A0W180060            F 11101                                         23C
06200405311273301012723020050100000002320620040533A0W180060            F 42602                                         23C
```

Figure PST9-2 - continued. Sample Output

(Page 4 of 9)

```
                                       EIS FILE MAINTENANCE PROGRAM - OLD MASTER LISTING                                     PAGE      1
0619600530000000100000000000000000000000292  06196005300018004701 12304PL-3175      001212PFRANKE SMYTHE  59195443769ENGINES  SYMTHE EN
0619600530000000100011000000000000000000346  06196005300018004710101111412124540955571212105151520203030110547001370970090010010000001
0619600530000000100012403001010000000000294  061960053000180047201403001010012301200030000004000578023001501BENGINE
0619600530000000100012403001020200000000294  061960053000180047201403001020212301200030000004000023012001501BENGINE
0619600530000000100013000000000000020210172  06196005300018004730102021SPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
0619600530000000101271000000000000000000346  06196005300018011311001111412124540955571212105151520203030110547001370970090010010000001
0619600530000000101272403001010000000000294  061960053000180113210403001010012301200030000004000578023001501BENGINE
0619600530000000101272403001020200000000294  061960053000180113210403001020212301200030000004000023012001501BENGINE
0619600530000000101273000000000000020210172  06196005300018011331002021SPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
0619600530000040100000000000000000000000292  06196005300418014701 12304PL-3175      001212PGEORGE SMYTHE  69195443769PLANTS   SYMTHE EN
0619600530000040100011000000000000000000346  06196005300418014710101111412124540955571212105151520203030110547001370970090010010000001
0619600530000040100012102023020200000000294  061960053004180147201102023020212301200030000004000163056001501CPLANTS
0619600530000040100012403001010000000000294  061960053004180147201403001010012301200030000004000578023001501PPLANTS
0619600530000040100013000000000000020210172  06196005300418014730102021SPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
0619600530000040100021000000000000000000346  06196005300418014810201111412124540955571212105151520203030110547001370970090010010000001
0619600530000040100022102023020100000000246  061960053004180149202102023020112401 00396000925000163058009782CPLANT
0619600530000040100022206001970500000000360  061960053004180149202206001970520001 00500000003000200     002902PPLANT
0619600530000040100022206001980500000000222  0619600530041800232022060019805123023000400000002000       003701 PLANT
0619600530000040100022301032030100000000222  0619600530041801492023010320301123023000400000003000       003701 PLANT
0619600530000040100022302002010100000000318  061960053004180149202302002010112401003960009250000348120009782PPLANT
0619600530000040100022302002010500000000342  061960053004180149202302002010520001005000000030000348120002901BPLANT
0619600530000040100022302002011000000000294  061960053004180023202302002011012402 00300000004000       002901BPLANT
0619600530000040100022302005010000000000294  061960053004180023202302005010012301200030000004000912201001501BPLANT
0619600530000040100022302005020200000000294  061960053004180023202302005020212301200030000004000912201001501BPLANT
0619600530000040100022403001010100000000582  0619600530041801492024030010101123013003000000040000578023002501BPLANT
0619600530000040100022403001010200000000318  061960053004180149202403001010212302300040000000300000000003701BPLANT
0619600530000040100022403001040100000000222  061960053004180149202403001040112403 00020000010000       003701 PLANT
0619600530000040100022902020200100000000246  061960053004180149202902020200112301 00300000040000       002502PPLANT
0619600530000040100022902020200200000000246  061960053004180149202902020200212401 00040000009000       001502CPLANT
0619600530000040100022902020200300000000222  061960053004180149202902020200312302 00004000050000       001502CPLANT
0619600530000040100023000000000000020210172  06196005300418002330202021SPLANT NOT FOLLOWING GUIDELINES &S SET DOWN 12/14/79
0620040531127040100000000000000000000000292  062004053A0418014701 12304PL-3175      001212PGEORGE SMYTHE  79195443769OIL ST   HANSON OI
0620040531127040100011000000000000000000346  062004053A0418014710101111412124540955571212105151520203030110547001370970090010010000001
0620040531127040100012302005010000000000294  062004053A0418002320130200501001230120003000000400091220100150 1POIL ST
0620040531127040100012302005020200000000294  062004053A041800232013020050202123012000300000040009122010015 01COIL ST
0620040531127040100013000000000000020210172  062004053A0418014730102021SPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
0620040531127040100021000000000000000000346  062004053A0418014810201111412124540955571212105151520203030110547001370970090010010000001
0620040531127040100022302005010000000000294  062004053A041800232023020050100123012000300000040009122010015 01BPLANT
0620040531127040100022302005020200000000246  062004053A041800232023020050202123012000300000040009122010015 01BPLANT
0620040531127040100023000000000000020210172  062004053A0418014830202021SPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
0620040531127330100000000000000000000000292  062004053A0W18004701 12304PL-3175      001212PGEORGE SMYTHE  29195443769ENGINES  HANSON EN
0620040531127330101271000000000000000000346  062004053A0W18011311001111412124540955571212105151520203030110547001370970090010010000001
0620040531127330101272302005010000000000294  062004053A0W1800232103020050100123012000300000040009122010015 01HENGINE
0620040531127330101272302005020200000000294  062004053A0W1800232103020050202123012000300000040009122010015 01BENGINE
0620040531127330101273000000000000020210172  062004053A0W18011331002021SPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
0620040531127330111121000000000000000000346  062004053A0W1803451AB01111412124540955571212105151520203030110547001370970090010010000001
0620040531127330111122302005010000000000294  062004053A0W1800232AB302005010012301200030000004000912201001501BENGINE
```

Figure PST9-2 - continued. Sample Output

(Page 5 of 9)

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Figure PST9-2 - continued. Sample Output

(Page 6 of 9)

```
                                      EIS FILE MAINTENANCE PROGRAM - NEW MASTER LISTING                            PAGE      1
0619600530000000100000000000000000000000292  06196JJ5300018006501 12304PL-3175     001212PFRANKE SMYTHE  59195443769ENGINES  SMYTHE EN
0619600530000000100011000000000000000000399  06196JJ530001800651010111141212454095557121210515152020303011054700137097009001001000000 1
0619600530000000100012403001010000000000294  06196JJ53000180047201403001010012301200030000004000578023001501BENGINE
0619600530000000100012403001020200000000294  06196JJ53000180065201403001020212301200030000004000023012001501BENGINE EXHAUST FUMES
0619600530000000100013000000000000020010172  06196JJ5300018006530102001ATHIS COMMENT ADDED 03/21/80
0619600530000000100013000000000000020210172  06196JJ5300018006530102021CPLANT NOW FOLLOWING GUIDELINES AS SET DOWN 12/14/79  WILL NOT
0619600530000000100013000000000000020220172  06196JJ5300018006530102022ATHIS IS THE END OF THIS COMMENT
0619600530000000101271000000000000000000346  06196JJ53000180113110011114121245409555712121051515202030301105470013709700900100100000001
0619600530000000101272403001010000000000294  06196JJ5300018011321G403001010012301200030000004000578023001501BENGINE
0619600530000000101272403001020200000000294  06196JJ5300018011321G403001020212301200030000004000023012001501BENGINE
0619600530000000101273000000000000020210172  06196JJ5300018011331G02021SPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
0619600530000040100000000000000000000000292  06196JJ5300418014701 12304PL-3175     001212PGEORGE SMYTHE  69195443769PLANTS   SYMTHE EN
0619600530000040100011000000000000000000346  06196JJ53004180065101011114121245409555712121051515202030301105470013709700900100100000001
0619600530000040100012102023020200000000294  06196JJ53004180147201102023020212301200030000004000163058001501CPLANTS
0619600530000040100012403001010000000000294  06196JJ53004180147201403001010012301200030000004000578023001501PPLANTS
0619600530000040100013000000000000020210172  06196JJ5300418014730102021SPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
0619600530000040100021000000000000000000346  06196JJ53004180148102011114121245409555712121051515202030301105470013709700900100100000001
0619600530000040100022102023020100000000246  06196JJ53004180149202102023020112401 00396000925000163058009782CPLANT
0619600530000040100022206001970500000000366  06196JJ53004180149202206001970520001 00500000003000200     002902PPLANT
0619600530000040100022206001980500000000222  06196JJ530041800232022060019805123023000400000002000       003701 PLANT
0619600530000040100022301032030100000000222  06196JJ530041801492023010320301123023000400000003000       003701 PLANT
0619600530000040100022302002010100000000318  06196JJ53004180149202302002010112401003960009250000348120009782PPLANT
0619600530000040100022302002010500000000342  06196JJ530041801492023020020105200010050000000030000348120002901BPLANT
0619600530000040100022302002011000000000294  06196JJ53004180023202302002011012402 00300000004000       002901BPLANT
0619600530000040100022302005010000000000294  06196JJ53004180060202302005010012301200030000004000912201001501BPLANT
0619600530000040100022302005020200000000294  06196JJ53004180061202302005020212301200030000004000912201001501BPLANT
0619600530000040100022403001010100000000582  06196JJ53004180149202403001010112301300300000040000578023002501BPLANT
0619600530000040100022403001010200000000318  06196JJ53004180149202403001010212302300040000000300000000003701BPLANT
0619600530000040100022403001040100000000222  06196JJ53004180149202403001040112403 00020000010000       003701 PLANT
0619600530000040100022902020200100000000246  06196JJ53004180149202902020200112301 00300000040000       002502PPLANT
0619600530000040100022902020200200000000246  06196JJ53004180149202902020200212401 00040000009000       001502CPLANT
0619600530000040100022902020200300000000222  06196JJ53004180149202902020200312302 00004000050000       001502CPLANT
0619600530000040100023000000000000020210172  06196JJ5300418002330202021SPLANT NOT FOLLOWING GUIDELINES &S SET DOWN 12/14/79
0620040531127040100000000000000000000000292  062004J53A0418006501 12304PL-3175     001212PGEORGE SMYTHE  79195443769OIL ST   HANSON OI
0620040531127040100011000000000000000000346  062004J53A041801471010111141212454095557121210515152020303011054700137097009001001000000 1
0620040531127040100012302005010000000000294  062004J53A04180023201302005010012301200030000004000912201001501POIL ST
0620040531127040100012302005020200000000294  062004J53A04180023201302005020212301200030000004000912201001501COIL ST
0620040531127040100013000000000000020210172  062004J53A0418014730102021DPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
0620040531127040100021000000000000000000346  062004J53A041801481020111141212454095557121210515152020303011054700137097009001001000000 1
0620040531127040100022302005010000000000294  062004J53A04180023202302005010012301200030000004000912201001501BPLANT
0620040531127040100022302005020200000000246  062004J53A04180023202302005020212301200030000004000912201001501BPLANT
0620040531127040100023000000000000020210172  062004J53A0418014830202021DPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
0620040531127330100000000000000000000000292  062004J53A0W18004701 12304PL-3175     001212PGEORGE SMYTHE  29195443769ENGINES  HANSON EN
0620040531127330101271000000000000000000346  062004J53A0W18011311G011114121245409555712121051515202030301105470013709700900100100000001
0620040531127330101272302005010000000000294  062004J53A0W18006021G302005010012301200030000004000912201001501BENGINE
0620040531127330101272302005020200000000294  062004J53A0W18006021G302005020212301200030000004000912201001501BENGINE
0620040531127330101273000000000000020210172  062004J53A0W18006531G02021DPLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CI
```

```
                    EIS/PS MASTER FILE DETAILED REPORT PROGRAM - DIAGNOSTIC REPORT                    PAGE 1

PROGRAM NAME: PRPMSTR (EP0210)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF SEGMENT 0 RECORDS PRINTED:          33
NUMBER OF SEGMENT 1 RECORDS PRINTED:          56
NUMBER OF SEGMENT 2 RECORDS PRINTED:          75
NUMBER OF SEGMENT 3 RECORDS PRINTED:          11
```

Figure PST9-2 - continued. Sample Output
(Page 7 of 9)

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                              EIS/PS MASTER FILE DETAILED REPORT                                  PAGE     1

        STATE COUNTY AQCR PLANT ID
          06    1960   053   0001

  DATE      SEGMENT    CONTROL   LOCAL                                                                   PRINCIPAL
YEAR DAY      TYPE     REGION    CONTROL    PLANT ID    CITY UTM ZONE OWNER      CONTACT        TELEPHONE    PRODUCT
 80  065       0         123        04    PL-3175       0012     12      P   FRANKE SMYTHE    5919544376   9ENGINES

                                                      NUMBER OF   PROPERTY
ESTABLISHMENT NAME AND ADDRESS               ZIP      EMPLOYEES     AREA      MAILING ADDRESS                           ZIP
SMYTHE ENGINE COMPANY INC.                              0025      00003.5    RED OAKE, COLORADO

                                                      NEDS FLAG  PLANT FLAG  E I S   F L A G S
P7 PLANT COMMENT                                          P1          P7         1   2   3   4
PLANT WILL START PRODUCTION 05/01/80                      C           C          S   C   S   C

  DATE    SEGMENT POINT   USER               UTM COORDINATES    LATITUDE     LONGITUDE    ANNUAL THRUPUT   NORMAL OPERATING
YEAR DAY    TYPE    ID   POINT ID SIC  IPP HORIZONTAL VERTICAL DEG MIN SEC  DEG MIN SEC  DEC MAR JUN SEP  HR/D D/WK WK/YR
 80  065     1      01       011   1141 21     245.4    0955.5   71  21  21  051  51  52   02  03  03  01   10    5    47

BOILER   SPACE   S     T    A    C    K       D    A    T    A      COMP SCHED   COMP STATUS         CONTROL REGULATION
CAPACITY HEAT   HEIGHT DIAM TEMP FLOW RATE VELOCITY PLUME PNTS  COMP YEAR MONTH  YEAR MONTH DAY  ECAP REG 1 REG 2 REG 3
 00137    09.7   0090  01.0 0100  0000123   00130    0900          2   81    10    79   12    15   1     44    15    17

                                                      N E D S    F L A G S  POINT FLAG  E I S   F L A G S
P7 POINT COMMENT                                      P2  P3  P4  P5  PWCS       P7         11   12   14
POLL 43101 ADDED 03/21/80                              S   A   A   A              C          S    S    C

NUMBER OF  POLLUTANT CONTROL  CONTROL EQUIP ESTM CNTL         E  M  I  S  S  I  O  N  S             ESTM   TEST  EIS FLG
POLLUTANTS    ID       COST      PRI   SEC   EFFICIENCY ESTIMATE MEASURED ALLOWABLE POTENTIAL UNITS METHOD METHOD   13
    03        CO     00001.00    022   041        93.5    0000100  0000200  0000300              4      3      3      S
              TSP    00001.00    022   041        93.5    0000100  0000200  0000300              4      3      3      S
              HC     01022.50    022   041        93.7    0001050  0002100  0003000              4      3      3      A

  DATE    SEGMENT POINT      SCC        SCC SEG   BEC            FUEL -    MAX DESIGN   SULFUR     ASH      HEAT
YEAR DAY    TYPE    ID    I II III IV     NBR    NBR ID  UNITS PROCESS      RATE      CONTENT  CONTENT  CONTENT CONF SOURCE
 80  047     2      01    4 03 001 01      00    123 01    2   0003000    0004.000      5.78     02.3    00150    1    8

                                                      NEDS FLAG  SCC FLAG  E I S   F L A G S
P7 SCC COMMENT                                           P6         P7        21  22  24  25
SCC LEFT COMMENT P7        SCC RIGHT P7 COMMENT          S          S         S   S   S   S

                              E F     NUMBER OF   POLLUTANT   EMISSION    ASH /  FACTOR EMISSIONS EIS FLAG
SOURCE DESCRIPTION           SOURCE   EMSN FCTR      ID        FACTOR     SULFUR  UNITS   APPORT      23
ENGINE                         8         04         NOX      000000.000             2                 S
                                                    CO       000000.000             1     0000000     S
                                                    22104    000000.230             2                 S
                                                    TSP      000000.000             1     0000000     S
```

Figure PST9-2 - continued. Sample Output

(Page 8 of 9)

```
                                   EIS/PS MASTER FILE DETAILED REPORT                                              PAGE    2


         STATE COUNTY AQCR PLANT ID
           06    1960   053   0001

  DATE    SEGMENT POINT       SCC        SCC SEG   BEC             FUEL -    MAX DESIGN  SULFUR     ASH     HEAT
YEAR DAY   TYPE    ID     I II III IV    NBR    NBR ID   UNITS PROCESS      RATE     CONTENT  CONTENT  CONTENT  CONF  SOURCE
 80  065    2      01     4 03 001 02     02    123 01     2   0003000    0004.000     0.23     01.2     00150     1     B

                                                                NEDS FLAG  SCC FLAG  E I S   F L A G S
P7 SCC COMMENT                                                     P6         P7       21  22  24  25
POLLUTANT 22104 DELETED ON 03/21/80                                C          C        S   C   C   C

                                 E F     NUMBER OF  POLLUTANT  EMISSION   ASH /  FACTOR EMISSIONS EIS FLAG
SOURCE DESCRIPTION             SOURCE  EMSN FCTR     ID       FACTOR    SULFUR  UNITS   APPORT      23
ENGINE EXHAUST FUMES              B        04        TSP     000000.050    A       1    0000000      S
                                                     NOX     000000.000            2                 S
                                                     CO      000000.080    S       1    0000000      S
                                                     22104   000000.100            2                 D


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                                   EIS/PS MASTER FILE DETAILED REPORT                                              PAGE    3


         STATE COUNTY AQCR PLANT ID
           06    1960   053   0001

SEGMENT POINT SEQ
  TYPE    ID   NBR
   3      01    02

 DATE  LINE  EIS  COMMENT
YR DAY  NBR FL 30
80 065  001   A   THIS COMMENT ADDED 03/21/80
80 065  021   C   PLANT NOW FOLLOWING GUIDELINES AS SET DOWN 12/14/79  WILL NOT BE CITED FOR VIOLATIONS
80 065  022   A   THIS IS THE END OF THIS COMMENT
```

Figure PST9-2 - continued. Sample Output (Page 9 of 9)

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EIS/PS Test 10

Retrieve a Standard Answer File Using a COBOL Retrieval and Produce a Formatted Dump of the Answer File

In this test run, a standard answer file is retrieved from the EIS/PS master file using the cataloged procedure EPRTM30. This procedure executes PRTLNGP (EP0140), the retrieval language processor program; the COBOL compiler; the linkage editor; and the generated retrieval program, PRTGENR (EP0150). A formatted dump of the answer file is produced by using the cataloged procedure EPRPM30 which executes PRPDUMP (EP0220), the master file formatted dump program.

PRTLNGP (EP0140) is the first of two EIS/PS programs used to retrieve data from the EIS/PS master file. The second program is PRTGENR (EP0150), the program generated by PRTLNGP (EP0140).

PRTLNGP (EP0140) uses the retrieval skeleton program PRTSKEL, which is stored in a cataloged source library, and the user-supplied retrieval specification cards to build PRTGENR (EP0150), which is referred to as the generated retrieval program.

The retrieval specification cards consist of retrieval control cards and retrieval request cards. The control cards indicate the beginning and end of the retrieval specifications: a $$SELECT card indicates the beginning of the retrieval specifications and a $$END card indicates the end of the retrieval specifications. Retrieval request cards follow the $$SELECT card and can be written in either the EIS/PS retrieval language or in COBOL. These cards precisely identify the data to be retrieved from the master file.

The options allowed for PRTLNGP (EP0140) are entered on the first $$SELECT retrieval control card. The options specify whether the requests are written in the EIS/PS retrieval language or in COBOL, and the name of the COBOL copy member (if any). The format of the retrieval control card is illustrated in Figure PST10-1 and the definitions of the EIS/PS retrieval control card fields are provided in Figure PST10-2.

When the EIS/PS retrieval language is used, the user is allowed to select records from the EIS/PS master file based upon the value of specific fields in the master file records. The data names which can be used for these EIS/PS retrieval language requests are listed in Figure PST10-3. The EIS/PS retrieval language specifications are written in the format described in Figure PST10-4 and Figure PST10-5 provides definitions of the EIS/PS retrieval language specification fields. The EIS/PS retrieval specification load sheet is provided in Figure PST10-6.

If the COBOL language is used, the retrieval request cards are prepared according to COBOL rules for syntax and punctuation. Any retrieval that can be run using the EIS/PS retrieval language can also be run by specifying USER as the language keyword (see Figure PST10-1) and using the COBOL language, but nothing is gained in these retrievals by using COBOL when the EIS/PS retrieval language can be used. There are some retrievals which cannot be accomplished using the EIS/PS retrieval language. This is when COBOL retrievals become very beneficial. In addition to this test, Test 29 also demonstrates the use of COBOL retrievals.

PRTGENR (EP0150) is produced based on the retrieval specifications entered into PRTLNGP (EP0140). This generated retrieval program must be compiled and link edited before it is executed. When it is executed, it reads the EIS/PS master file and selects those records which satisfy the retrieval specifications that were entered into PRTLNGP (EP0140). If a record is selected, associated records will also be selected as follows:

Plant record field specified: If a plant record meets the retrieval criteria, it will be retrieved along with its associated point and SCC records. No comment records will be retrieved.

Point record field specified: If a point record qualifies, it will be retrieved with its associated plant and SCC records. Other points for the plant will be retrieved only if they qualify individually. No comment records will be retrieved.

SCC record field specified: If an SCC record qualifies, the associated plant, point, and all SCC's for the point will be retrieved. Other points for the plant will be retrieved only if they have associated

SCC's which meet the retrieval criteria. No comment records will be retrieved.

Comment record field specified: If a comment record qualifies, the associated plant, point, and all SCC records for the point will also be retrieved. Other points for the plant will be retrieved only if they have comment records and those comment records qualify.

The selected records are written to an output file which is referred to as an EIS/PS answer file. This file is only a subset of the master file; any changes made to the answer file during the retrieval process are not reflected in the master file. The answer file has the same format as the EIS/PS master file and may be used as input to any EIS/PS program which uses the master file as input.

For a description of PRPDUMP (EP0226), refer to Test 5.

The run stream for this test run contains the JCL needed for retrieving a standard answer file from an EIS/PS master file and producing a formatted dump of the answer file. This run stream is shown in Figure PST10-7 and the sample output produced by this test run is shown in Figure PST10-8.

The first cataloged procedure executed by this run stream is EPRTM30. Through the use of substitutable parameters, the input master file is specified as EPMSTR4 (created in Test 9) and the output answer file is named EPANS01. The user must supply the appropriate DD (data definition) information for the input retrieval specification card file in the COMPILE step.

The next cataloged procedure executed by this run stream is EPRPM30. A substitutable parameter is used to specify EPANS01 as the input master file.

Record Position	Field Length	Description
1 - 8	8	Card Type
9	1	Unused
10 - 13	4	Language Keyword
14 - 15	2	Unused
16 - 23	8	COBOL Member Name
24 - 80	57	Unused

Figure PST10-1. EIS/PS Retrieval Control Card

Card Type: Identifies the type of control card.

Valid Codes: $$SELECT - Specifies the beginning of a retrieval request.

$$END - Specifies the end of a retrieval request and must appear alone on the card.

Field Length: 8 characters

Language Keyword: Identifies the type of retrieval language to be used.

Valid Codes: USER - Indicates that the retrieval specifications will be COBOL language statements.

blank - Indicates that EIS/PS retrieval language specifications will be used.

Field Length: 4 characters

COBOL Member Name: Indicates the name of a COBOL copy member residing in a partitioned data set and containing COBOL language statements. A copy member can be used for USER retrievals.

Valid Codes: blank - Specifies that the COBOL retrieval statements will be placed after the $$SELECT card.

member name - Specifies the name of the member of an external source library where the COBOL retrieval statements reside. These COBOL statements must have been stored in the external source library under this member name prior to the execution of the retrieval.

Field Length: 8 characters

Figure PST10-2. Definition of EIS/PS Retrieval Control Card Fields

Valid Data Names for Retrieval (Plant Data)

The following list of names from the plant record can be referenced in either EIS/PS retrieval language specifications or COBOL language specifications:

Data Name	Field Length	Data Name	Field Length
AQCR	3	RECORD-O-DAY	3
CITY	4	RECORD-O-YEAR	2
CONTACT	15	SEG-O-ID	1
COUNTY	4	STATE	2
DATE-OF-O-RECORD	5	TELEPHONE	10
LOCAL-CONTROL	2	USER-CONTROL-REGION	3
NUMBER-OF-EMPLOYEES	4	USER-PLANT-ID	12
OWNER	1	UTM-ZONE	2
PLANT-ID	4		
PRINCIPAL-PRODUCT	10		
PROPERTY-AREA	6		

The following two names from the plant record can be referenced only in COBOL language specifications:

ESTABLISHMENT
MAILING-ADDRESS

(Page 1 of 5)

Figure PST10-3. Valid Retrieval Data Names

Valid Data Names for Retrieval (Point Data)

The following list of names from the point record can be referenced in either EIS/PS retrieval language specification or COBOL language specifications:

Data Name	Field Length	Data Name	Field Length	Data Name	Field Length
ANNUAL-THRUPUT	8	LATITUDE-DEGREE	2	SCHEDULE-MONTH	2
BOILER-DESIGN-CAPACITY	5	LATITUDE-MINUTE	2	SCHEDULE-YEAR	2
COMPLIANCE-SCHEDULE	4	LATITUDE-SECOND	2	SEG-1-ID	1
COMPLIANCE-STATUS	1	LONGITUDE	7	SEP-NOV	2
COMPLIANCE-STATUS-UPDATE	6	LONGITUDE-DEGREE	2	SIC	4
CONTROL-REGULATIONS	12	LONGITUDE-MINUTE	2	SPACE-HEAT	3
DATE-OF-1-RECORD	5	LONGITUDE-SECOND	2	STATUS-DAY	2
DAY-WEEK	1	MAR-MAY	2	STATUS-MONTH	2
DEC-FEB	2	NBR-OF-POLLUTANTS	2	STATUS-YEAR	2
DIAMETER	3	NEDS-POINT-ID	2	TEMPERATURE	4
ECAP	1	NORMAL-OPERATING	5	USER-POINT-ID	3
FLOW-RATE	7	PLUME	4	UTM-COORDINATES	9
HEIGHT	4	POINTS-PER-STACK	4	VELOCITY	5
HORIZONTAL	4	RECORD-1-DAY	3	VERTICAL	5
HOURS-DAY	2	RECORD-1-YEAR	2	WEEK-YEAR	2
IPP	2	REG-1	4		
JUN-AUG	2	REG-2	4		
LATITUDE	6	REG-3	4		

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Figure PST10-3 - continued. Valid Retrieval Data Names

Valid Data Names for Retrieval (Repeating Data)

The following list of names from the repeating portion of the point record can be referenced in either EIS/PS retrieval language specifications or COBOL language specifications:

Data Name	Field Length	Data Name	Field Length
ALLOWABLE	7	ESTIMATION-METHOD	1
CNTL-EQUIP-COST	7	MEASURED	7
CONTROL-EQUIPMENT	6	POLLUTANT-ID	5
		POTENTIAL	7
EMISSION-UNITS	1	PRIMARY-CNTL	3
EST-CONTROL-EFF	3	SECONDARY-CNTL	3
ESTIMATES	7	TEST-METHOD	1

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Figure PST10-3 - continued. Valid Retrieval Data Names

Valid Data Names for Retrieval (SCC Data)

The following list of names from the SCC record can be referenced in either EIS/PS retrieval language specifications or COBOL language specifications:

Data Name	Field Length	Data Name	Field Length
ASH-CONTENT	3	RECORD-2-DAY	2
BEC	5	SCC	8
BEC-ID	2	SCC-I	1
BEC-NUMBER	3	SCC-II	2
CONFIDENTIALITY	1	SCC-III	3
DATE-OF-2-RECORD	5	SCC-IV	2
EMISSION-FACTOR-SOURCE	1	SCC-SEQ-NBR	2
FUEL-PROCESS-RATE	7	SEG-2-ID	1
FUEL-UNITS	1	SEG-2-POINT-ID	2
HEAT-CONTENT	5	SOURCE-CODE	1
MAX-DESIGN-RATE	7	SOURCE-DESCRIPTION	25
NUMBER-OF-EF	2	SULFUR-CONTENT	3
RECORD-2-YEAR	2		

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Figure PST10-3-c - continued. Valid Retrieval Data Names

Valid Data Names for Retrieval (Comment Data)

The following list of names from the comment record can be referenced in either EIS/PS retrieval language specifications or COBOL language specifications:

Data Name	Field Length
DATE-OF-3-RECORD	5
LINE-NUMBER	3
RECORD-3-DAY	3
RECORD-3-YEAR	2
PNR-SEQ-NBR	2
SEG-3-ID	1
SEG-3-POINT-ID	2

The following three names from the comment record can be referenced only in COBOL language specifications:

COMMENT-L
COMMENT-R
COMMENTS

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Figure PST10-3 - continued. Valid Retrieval Data Names

Record Position	Field Length	Description
1 - 31	31	Subject Name
32	1	Unused
33	1	Negation Flag
34	1	Unused
35	1	Relational Operator
36	1	Unused
37 - 67	31	Object Name
68	1	Unused
69 - 71	3	Boolean Operator
72 - 80	9	Unused

Figure PST10-4. Format for EIS/PS Retrieval Language Specifications

Subject Name: Specifies the name of the field in the EIS/PS master file record to be compared with the literal or the master file field name specified by the object name.

Valid Codes: Only those fields listed in Figure PST10-3 can be used. The spelling, including hyphen, must match exactly.

Field Length: 31 characters

Negation Flag: Indicates whether or not the Boolean NOT condition is in effect.

Valid Codes: N - Boolean NOT is in effect.
blank - Boolean NOT is not in effect.

Field Length: 1 character

Relational Operator: Indicates the relationship to be tested between the subject name and the object name.

Valid Codes: = - equal
< - less than
> - greater than

Field Length: 1 character

Object Name: A literal to be compared against the master file field specified by the subject name, or the name of a master file field (not in apostrophes) to be compared against the master file field specified by the subject name (e.g., subject name = object name).

Valid Codes: If a literal is used, it must be enclosed in apostrophes. The length of the literal must be exactly the same as the field length of the data name being compared (see Figure PST10-3). If the

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Figure PST10-5. Definition of EIS/PS Retrieval Language Specification Fields name of a field from the master file is used, it must match exactly one of the names listed in Figure PST10-3. However, it must not be enclosed in apostrophes.

Field Length: 31 characters

Boolean Operator: Identifies the type of connector used between the relationship specified on this control card and that specified on the next card.

Valid Codes:
- AND - Indicates that both relationships must be true in order for the entire relationship to be true.
- OR - Indicates that if either relationship is true, the entire relationship is true.
- blank - Indicates that there is no connector, and therefore, that there is no further specification.

Field Length: 3 characters

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Figure PST10-5 - continued. Definition of EIS/PS Retrieval Language Specification Fields

AGENCY ____________________

SEE BACK OF FORM FOR VALID CODES

EMISSIONS INVENTORY SYSTEM / POINT SOURCE (EIS / PS)
COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
RETRIEVAL SPECIFICATIONS

BY ____________________
DATE ____________________
PAGE ______ OF ______

	USER KEYWORD	COPY MEMBER NAME
1 8	10 13	16 23
$ $ S E L E C T		

SUBJECT NAME 1 31	N F 33	R O 35	OBJECT NAME (LITERALS MUST BE ENCLOSED IN SINGLE QUOTES) 37 67	B O 69 71

1 5
$ $ E N D

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Figure PST10-6. EIS/PS Retrieval Specification Load Sheet

```
//PSTEST10 JOB    (ACCOUNTING INFO)
//*
//*   RETRIEVE AN ANSWER FILE USING A COBOL RETRIEVAL AND PRODUCE
//*   A FORMATTED DUMP OF THE ANSWER FILE
//*
//TEST10A EXEC EPRTM30,
//        MSTRFIL=EPMSTR4,
//        ANSWRFL=EPANS01
//*
//*   RETRIEVE THE ANSWER FILE FROM THE MASTER FILE PRODUCED IN
//*   TEST 9 USING IN-LINE COBOL SPECIFICATIONS
//*
//COMPILE.INPUT DD *
*$SELECT USER
         QUALIFY-RECORDS.
           IF ESTABLISHMENT IS EQUAL TO 'HANSON'   OR
             MAILING-ADDRESS IS EQUAL TO 'RED OAKE' OR
             (COMMENT-L IS NOT EQUAL TO ' '        AND
             LINE-NUMBER IS EQUAL TO '001')
             MOVE TRUE TO QUALIFICATION-ACHIEVED-SW.
         QUALIFY-RECORDS-END.
           EXIT.
        SET-QUALIFICATION-LEVEL SECTION.
         SET-QUAL-LEVEL.
           MOVE REQUIRE-3-QUAL TO QUALIFICATION-REQUIRED.
         SET-QUAL-LEVEL-END.
           EXIT.
$$END
//TEST10B  EXEC EPRPM30,
//        MSTRFIL=EPANS01
//*
//*   PRODUCE THE FORMATTED DUMP OF THE ANSWER FILE
//*
```

Figure PST10-7. Run Stream

```
                    EIS/PS RETRIEVAL LANGUAGE PROCESSOR  -  DIAGNOSTIC MESSAGES                    PAGE    1


PROGRAM NAME: PRTLNGP (EP0140)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


INPUT (CONTROL CARDS)

$$SELECT USER

         QUALIFY-RECORDS.

           IF ESTABLISHMENT IS EQUAL TO 'HANSON'   OR

             MAILING-ADDRESS IS EQUAL TO 'RED OAKE' OR

             (COMMENT-L IS NOT EQUAL TO ' '        AND

             LINE-NUMBER IS EQUAL TO '001')

             MOVE TRUE TO QUALIFICATION-ACHIEVED-SW.

         QUALIFY-RECORDS-END.

           EXIT.

        SET-QUALIFICATION-LEVEL SECTION.

         SET-QUAL-LEVEL.

           MOVE REQUIRE-3-QUAL TO QUALIFICATION-REQUIRED.

         SET-QUAL-LEVEL-END.

           EXIT.

$$END


NUMBER OF CONTROL CARDS READ:      15
NUMBER OF ERRORS DETECTED:          0
```

Figure PST10-8. Sample Output

(Page 1 of 4)

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```
                    EIS/PS GENERATED RETRIEVAL PROGRAM  -  DIAGNOSTIC REPORT                    PAGE     1


PROGRAM NAME: PRTGENR (EP0150)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF MASTER FILE RECORDS READ:          175
NUMBER OF ANSWER FILE RECORDS WRITTEN:         9
NUMBER OF ERRORS DETECTED:                     0
```

Figure PST10-8 - continued. Sample Output (Page 2 of 4)

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```
                                        EIS/PS MASTER FILE FORMATTED DUMP PROGRAM - DIAGNOSTIC REPORT                         PAGE

PROGRAM NAME: PRPDUMP (EP0220)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


PLANT (SEGMENT 0) RECORD COUNT:                                                   2
POINT SOURCE (SEGMENT 1) RECORD COUNT:                                            2
POINT SOURCE POLLUTANT COUNT:                                                     8
MACHINE PROCESS (SEGMENT 2) RECORD COUNT:                                         3
MACHINE PROCESS POLLUTANT COUNT:                                                 13
PERMITS & REGISTRATION (SEGMENT 3) RECORD COUNT:                                  2

AVERAGE NUMBER OF POINT SOURCES PER PLANT:                                      1.0
AVERAGE NUMBER OF POLLUTANTS PER POINT SOURCE:                                  4.0
AVERAGE NUMBER OF MACHINE PROCESSES PER POINT SOURCE:                           1.5
AVERAGE NUMBER OF POLLUTANTS PER MACHINE PROCESS:                               4.3
AVERAGE NUMBER OF PERMITS & REGISTRATION SEGMENTS PER POINT SOURCE:             1.0

TOTAL NUMBER OF RECORDS READ:                                                     9
NUMBER OF ERRORS DETECTED:                                                        0
NUMBER OF PAGES IN REPORT:                                                        2
```

Figure PST10-8 - continued. Sample Output
(Page 3 of 4)

```
                                                     EIS/PS MASTER FILE DUMP                                             PAGE     1

------------------------------------------------------------------------------------------------------------------------------------
PLANT #      1                                                                        KEY=0619600530000000100000000000000000000292
ST/CD=06 CY/CD=1960 AQCR/#=053 PL/ID=0001 DT=80065 USR/CNTL/RG=123 LCL/CNTL=04 USR/PL/ID=PL-3175      CTY=0012 UTM/ZN=12 OWRSHP=P
CNTCT=FRANKE SMYTHE     PHN=5919544376 NM/ADDR=SMYTHE ENGINE COMPANY INC.                    PRD=9ENGINES    EMP=0025 AREA=000035
MLG/ADDR=RED OAKE, COLORADO                               P1/FL=C P7/CMTS=PLANT WILL START PRODUCTION 05/01/80
P7/FL=C EIS FLAGS:  1=S 2=C 3=S 4=C
------------------------------------------------------------------------------------------------------------------------------------
   POINT SOURCE  01                                                                   KEY=0619600530000000100011000000000000000399
    SEG/DT=80065 USR/PT/ID=011 SIC/CD=1141 IPP/CD=21 UTM/HORZ=2454 UTM/VERT=09555 LAT=712121 LNG=0515152 THRPT=02030301
    NRML/OPER=10547 BOLR/CAPC=00137 SPC/HI=097 STCK/HGHT=0090 STCK/DIAM=010 STCK/TMP=0100 FLW/RT=0000123 VLOCTY=00150 PLM/HGHT=0900
    PTS/CM/STK=       COMPLCE/STAT=2 COMPLCE/SCH=8110 COMPLCE/UPD=791215 ECAP=1 CNTRL/REGUL=  44  15  17 P2-P5/FLGS=SAAA PWCS/FL=
    P7/CMTS=POLL 43101 ADDED 03/21/80                            P7/FL=C EIS FLAGS:  11=S 12=S 14=C #/POLL=03
    **  POLL/ID  EQP/CST  PRI/EQP  SEC/EQP  CNTL/EF  EMIS/EST  EMIS/MEAS  ALLOW/EMIS  UNCNTL/EMIS  EM/UTS EST/MT TS/MT EIS/FL/13  **
    **   42101   0000100    022      041      985    0000100    0000200    0000300                   4     3      3       S       **
    **   11101   0000100    022      041      985    0000100    0000200    0000300                   4     3      3       S       **
    **   43101   0102250    022      041      907    0001050    0002100    0003000                   4     3      3       A       **
------------------------------------------------------------------------------------------------------------------------------------
       SCC   40300101  SEQ NBR   00                                                   KEY=0619600530000000100012403001010000000294
        SEG/DT=80047 BEC=12301 FUEL/UTS=2 FUEL/PRC=0003000 MAX/DESGN=0004000 SUL/CT=578 ASH/CT=023 HEAT/CT=00150 CNFD/DT=1 SC/CD=B
        SC/DSC=ENGINE                    E/F/SC=B P6/FL=S P7/CMTS=SCC LEFT COMMENT P7       SCC RIGHT P7 COMMENT      P7/FL=S
        EIS/FLAGS:  21=S 22=S 24=S 25=S
                                                                                                                           #/E/F=04
        ** POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23          POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23 **
        **  42602   000000000           2                   S               42101   006000000           1      0000000      S     **
        **  22104   000000230           2                   S               11101   000000000           1      0000000      S     **
------------------------------------------------------------------------------------------------------------------------------------
       SCC   40300102  SEQ NBR   02                                                   KEY=0619600530000000100012403001020200000294
        SEG/DT=80065 BEC=12301 FUEL/UTS=2 FUEL/PRC=0003000 MAX/DESGN=0004000 SUL/CT=023 ASH/CT=012 HEAT/CT=00150 CNFD/DT=1 SC/CD=B
        SC/DSC=ENGINE EXHAUST FUMES      E/F/SC=B P6/FL=C P7/CMTS=POLLUTANT 22104 DELETED ON 03/21/80                 P7/FL=C
        EIS/FLAGS:  21=S 22=C 24=C 25=C
                                                                                                                           #/E/F=04
        ** POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23          POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23 **
        **  11101   000000050   A       1      0000000      S               42602   000000000           2                   S     **
        **  42101   000000080   S       1      0000000      S               22104   000000100           2                   D     **
------------------------------------------------------------------------------------------------------------------------------------
       PERMITS & REGISTRATION 02                                                      KEY=0619600530000000100013000000000020010172
                                                                                                                              EIS **
        **  SEG  LINE                                                                                                        FLAG **
        **  DATE  NBR                                                                                                        30   **
        ** 80065    1  THIS COMMENT ADDED 03/21/80                                                                             A  **
------------------------------------------------------------------------------------------------------------------------------------
PLANT #      2                                                                        KEY=1800602240000000030000000000000000000292
ST/CD=18 CY/CD=0060 AQCR/#=224 PL/ID=0003 DT=80065 USR/CNTL/RG=     LCL/CNTL=   USR/PL/ID=            CTY=0680 UTM/ZN=17 OWRSHP=S
CNTCT=J C TEMPLEMA    PHN=9195551212 NM/ADDR=UNIV NC JEFFERSON PK AV & C&O RR TRACKS         PRD=           EMP=     AREA=
MLG/ADDR=2R00 PARK AVENUE, JEFFERSON N.C.                 P1/FL=S P7/CMTS=ADDRESS & PHONE NUMBER ADDED 03/21/80
P7/FL=C EIS FLAGS:  1=C 2=S 3=C 4=C
```

Figure PST10-8 - continued. Sample Output (Page 4 of 4)

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EIS/PS Test 11

Submit Annual Report in EIS/PS Format

In this test run, EIS/PS master file internal transactions are generated from the EIS/PS master file in order to submit the data that has been added, changed, or deleted since the last execution of PRPENTR (EP0200) to the appropriate agency. The cataloged procedure EPRPM10 is used to execute PRPENTR (EP0200), the annual report program.

In Test 6 PRPENTR (EP0200) was used to submit an annual report to NEDS by generating NEDS transactions. In this test EIS/PS internal transactions are generated by the annual report program. This is accomplished by specifying POINT on the option card. For a description of PRPENTR (EP0200) refer to Test 6.

The run stream for this test run contains the JCL needed for submitting EIS/PS master file data to the appropriate agency by generating EIS/PS internal transactions. This run stream is shown in Figure PST11-1.

The cataloged procedure executed by this run stream is EPRPM10. By using substitutable parameters, the input master file is specified as EPMSTR4 (created in Test 9), the output master file is named EPMSTR5, and the output EIS/PS internal transaction file is named EPPSTRN. The user must supply the DD (data definition) information for the option card file in the REPORT step. The options specified in this test run are POINT, NOFLAGW, and NOLIST. Notice that when EIS/PS internal transactions are being generated the NEDS transaction file EPSNDTR must be a dummy file in the REPORT step. The sample output produced by this run stream is shown in Figure PST11-2.

```
//PSTEST11 JOB    (ACCOUNTING INFO)
//*
//*   SUBMIT AN ANNUAL REPORT IN EIS/PS MODE
//*
//TEST11A EXEC EPRPM10,
//       OLDMSTR=EPMSTR4,
//       NEWMSTR=EPMSTR5,
//       TRANFL2=EPPSTRN
//*
//*   PRODUCE EIS/PS INTERNAL TRANSACTIONS FOR THE
//*   ANNUAL REPORT
//*
//REPORT.EPSNOTH DD DUMMY
//REPORT.OPTIONS DD *
POINT NOFLAGW NOLIST
```

Figure PST11-1. Run Stream

```
                                        EIS/PS ANNUAL REPORT PROGRAM  -  DIAGNOSTIC REPORT                                      PAGE

              PROGRAM NAME: PRPENTR (EP0200)
              REVISION LEVEL: 1-00
              LAST UPDATE #: P-1
              DATE INCORPORATED: FEBRUARY 1, 1980

              OPTION CARD: POINT NOFLAGW NOLIST

              INPUT EIS/PS MASTER FILE COUNT:            175
              OUTPUT EIS/PS MASTER FILE COUNT:           162
              RECORDS DELETED FROM MASTER FILE:           13
              POINT OUTPUT TRANSACTIONS COUNT:            45
                 ADD TRANSACTIONS COUNT:                   7
                 CHANGE TRANSACTIONS COUNT:               32
                 DELETE TRANSACTIONS COUNT:                6
              NUMBER OF ERROR MESSAGES:                    0
              NUMBER OF WARNING MESSAGES:                  0
              NUMBER OF CONDITIONAL MESSAGES:              0
              NUMBER OF ABORT MESSAGES:                    0
              NUMBER OF DISASTER MESSAGES:                 0
```

Figure PST11-2. Sample Output

EIS/PS Test 12

Produce the Master File Emissions Projection

In this test an emissions projection is made on the EIS/PS master file using the cataloged procedure EPRPM50 which executes PRPEPRJ (EP0250), the master file emissions projection program.

PRPEPRJ (EP0250) calculates projected emissions for the five criteria pollutants (TSP, SO_2, NO_x, HC and CO) using the EIS/PS master file as input and produces an emissions projection file in master file format containing the projected emissions. The calculations made are based on the projection information entered by control cards. Depending on the type of control cards supplied by the user, projections may be made by SCC, by plant/point combinations, or for all records (by a fixed percentage).

The output projection file contains all segment 0, segment 1, and segment 2 records from the input master file. The segment 0 records are output unchanged. The projected value of the emissions estimate is changed in any segment 1 record which meets the specifications set forth in the control cards; otherwise, the emissions are the same as those in the input file. If the SCC option (option 2) has been specified, information from the SCC control cards will replace the incoming information from the input master file in the segment 1 and segment 2 records for the selected SCC's.

Whenever projected values are calculated for emissions, the uncontrolled emissions (those emissions that would occur if their associated control device efficiencies were zero) are calculated. The values for the uncontrolled emissions are stored in the corresponding EMISSIONS-POTENTIAL fields of the output segment 1 records.

A segment 3 record is generated for each plant (segment 0) in which emissions have been projected. If no emissions were changed for a plant, a check is made on the segment 3 records. If a segment 3 record was produced by an earlier run on the emissions projection program, it will be output; otherwise, no segment 3 record will be written to the projection file for that plant. The generated segment 3 record indicates which type of projection was run. In addition, header records with keys containing all zeroes are output to indicate that the file was created by the emissions projection program.

When a point has been selected for projection, calculations are performed on all specified SCC's related to that point regardless of the estimation method. Therefore, it is possible that the calculated values may differ greatly from the present values if the present estimation method is not 3. If the control device efficiently is missing from the input file record, a value of zero will be used and the calculation will be performed.

There are three types of control cards available for use with the emissions projection program. A type-1 control card will cause projected emissions to be calculated for the five criteria pollutants associated with each point in every plant in the master file. These projected emissions are a fixed percentage increase or decrease of the emissions presently in the input master file. The user must code ALL in columns 1 through 3 of the control card. If the projection is to be a fixed percentage decrease, a minus sign must be coded in column 5; otherwise, the projection will be a fixed percentage increase. The percentage of change is coded in columns 6 through 8 and can be any value from 000 to 899; however, the value must not be greater than 099 if the sign is negative. Finally, a '1' must be coded in column 80 to indicate the card type.

Type-2 control cards allow the user to modify the fuel process rate, ash and sulfur content, and control device efficiency for selected SCC's. Modifications can be made to these data fields by coding actual values or by specifying change percentages on the control card. However, in no case is the resultant percentage allowed to be less than 0 for these fields; and, the calculated values for ash content, sulfur content, and control device efficiency must not be greater than 99.9, 9.99, and .999, respectively. If any one of these values exceeds its maximum, that field will be left unchanged and no calculations will be performed. Also, coding an actual value for a field excludes the possibility of coding a change for that field. Similarly, to use a change field on the control card, one must not code an actual value for that same element. The SCC number must be coded in columns 1 through 8 of the card. To indicate the card type, a '2' must be coded in column 80.

To replace the fuel process rate in the corresponding input segment 2 record with a new value, code the value in columns 10 through 16. To change the fuel process rate by a percentage, code the percentage in columns 19 through 21. The format for this field contains an implied decimal point with one digit to the left and two digits to the right. Therefore, the user should include any necessary leading or trailing zeroes, but should not code a decimal point. If the change is a decrease, a minus sign must be coded in column 18.

To replace the ash content in the corresponding input segment 2 record with a new value, code the value in columns 23 through 25 of the control card. To change the ash content by adding a value, code the value in columns 28 through 30. If the change is a decrease, a minus sign must be coded in column 27. The formats for both the actual value field and the change field have implied decimal points with two digits to the left and one digit to the right. Therefore, the user should include any necessary leading or trailing zeroes, but should not code a decimal point.

To replace the sulfur content in the corresponding input segment 2 record with a new value, code the value in columns 32 through 34 of the control card. To change the sulfur content by adding a value, code the value in columns 37 through 39. If the change is a decrease, code a minus sign in column 36. The formats for both the actual value field and the change field have implied decimal points with one digit to the left and two digits to the right. Therefore, the user should include any necessary leading or trailing zeroes, but should not code a decimal point.

To replace the control device efficiency in the corresponding input segment 1 record with a new value, code the value in columns 41 through 43 of the control card. To change the control device efficiency by adding a value, code the value in columns 46 through 48. If the change is a decrease, code a minus sign in column 45. The formats for both the actual value field and the change field contain implied decimal points with all three digits to the right. Therefore the user should include any necessary leading or trailing zeroes, but should not code a decimal point. Since there is a control device efficiency for each pollutant in a segment 1 record, the control device efficiencies for all criteria pollutants in that record will be replaced by the value on the control card. In the case where a change is indicated on the control card, the control device efficiencies will be modified by that value.

Type-3 control cards allow the user to change the emissions by a fixed percentage increase or decrease for selected plant/point combinations. To specify a selected plant/point combination, the user must code the state code in columns 1 and 2, the county code in columns 3 through 6, the AQCR code in columns 7 through 9, the plant code in columns 10 through 13, and the point code in columns 14 and 15. The point identification used on the control card is the NEDS point identification. The fixed percentage change is coded in columns 18 through 20 and has the same value limits as the fixed percentage on a type-1 control card. If the change is a decrease, a minus sign must be coded in column 17. The user can shut down a point completely by coding 'OFF' in columns 18 through 20. When this action is taken, the emissions estimates for that point are changed to zero and no projected emissions are calculated. A '3' must be coded in column 80 to indicate the card type.

Only one type of control card can be entered in a single run. One type-1 (fixed change - all plants) control card can be entered. A maximum of 50 type-2 (SCC specific) control cards, each with a different SCC number, can be entered. A maximum of 50 type-3 (plant/point) control cards, each with a different plant/point combination, can be entered.

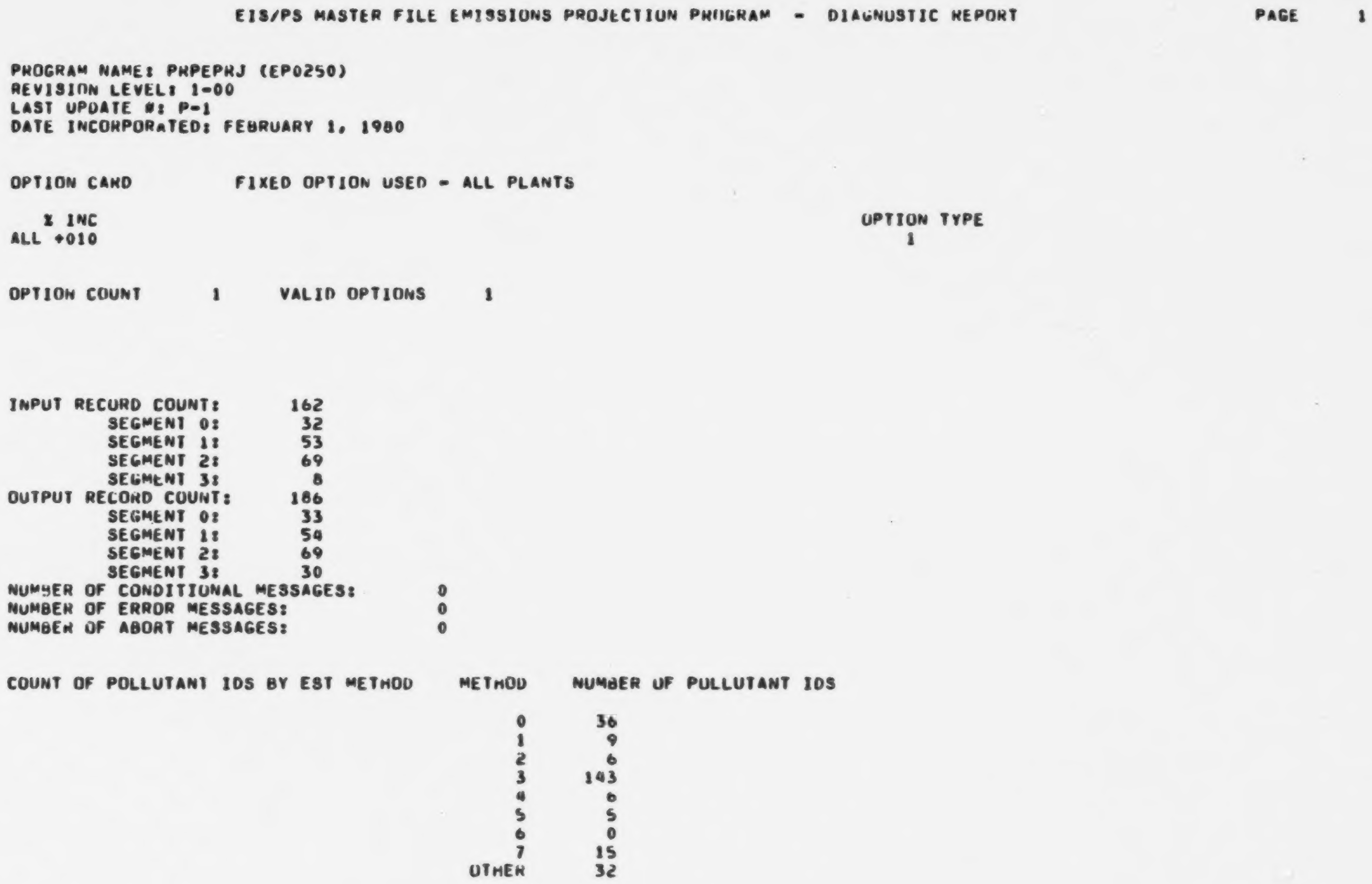
PRPEPRJ (EP0250) also produces a summary report which shows the emissions by point for the current five criteria pollutants. Both controlled and potential amounts are listed for the present and projected emissions. The summary report has page breaks on plant, county, state and AQCR. At each of these breaks totals are printed, unless only one entry has occurred since the last break. If only one state and AQCR occur in the master file, the totals printed at the end of the report will be for the last county and then the entire file since the emissions totals will be the same for the state and AQCR. Total emissions for the entire file are also printed.

The run stream for this test run contains the JCL needed to produce an emissions projection of the master file. This run stream is shown in Figure PST12-1.

The cataloged procedure executed by this run stream is EPRPM50. Substitutable parameters are used to specify the input master file as EPMSTR5 (created in Test 11) and the projected master file as PRJFIL1. The DD (data definition) information for the option card file in the PROJCT step must be supplied by the user. The options used in this test are ALL and +010. Refer to Figure PST12-2 for the sample output produced by this test run.

```
//PSTEST12 JOB     (ACCOUNTING INFO)
//*
//*   PRODUCE THE MASTER FILE EMISSIONS PROJECTION
//*
//TEST12A EXEC EPRPR50,
//       MSTRFIL=EPMSTR5,
//       PROJFIL=PRJFIL1
//*
//*   GENERATE EMISSIONS PROJECTIONS FOR THE MASTER FILE
//*   CREATED IN TEST 11
//*
//PROJCT.OPTION DD *
ALL +010                                                                 1
```

Figure PST12-1. Run Stream



```
                    EIS/PS MASTER FILE EMISSIONS PROJECTION PROGRAM  -  DIAGNOSTIC REPORT                PAGE     1

PROGRAM NAME: PRPEPRJ (EP0250)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD         FIXED OPTION USED - ALL PLANTS

   % INC                                                                 OPTION TYPE
ALL +010                                                                      1

OPTION COUNT       1     VALID OPTIONS      1




INPUT RECORD COUNT:       162
         SEGMENT 0:        32
         SEGMENT 1:        53
         SEGMENT 2:        69
         SEGMENT 3:         8
OUTPUT RECORD COUNT:      186
         SEGMENT 0:        33
         SEGMENT 1:        54
         SEGMENT 2:        69
         SEGMENT 3:        30
NUMBER OF CONDITIONAL MESSAGES:       0
NUMBER OF ERROR MESSAGES:             0
NUMBER OF ABORT MESSAGES:             0

COUNT OF POLLUTANT IDS BY EST METHOD    METHOD    NUMBER OF POLLUTANT IDS

                                            0        36
                                            1         9
                                            2         6
                                            3       143
                                            4         6
                                            5         5
                                            6         0
                                            7        15
                                        OTHER        32
```

Figure PST12-2. Sample Output

(Page 1 of 3)

```
                                   EIS/PS MASTER FILE EMISSIONS PROJECTION REPORT                                          PAGE

                                                           --------------------- EMISSIONS - TONS PER YEAR --------------------
                                                           -----BASELINE MASTER FILE ------      -----PROJECTED FILE #    1------
       STATE  COUNTY  AQCR   PLANT  POINT    POLL-ID       CONTROLLED         POTENTIAL          CONTROLLED         POTENTIAL

         06    1960    053    0001    01    TSP-11101             100             6,667                 110             7,333
                                            CO -42101             100             6,667                 110             7,333
                                            SO2-42401               0                 0                   0                 0
                                            NOX-42602               0                 0                   0                 0
                                            HC -43101           1,050            11,290               1,155            12,419
         06    1960    053    0001    10    TSP-11101             100             6,667                 110             7,333
                                            CO -42101             100             6,667                 110             7,333
                                            SO2-42401               0                 0                   0                 0
                                            NOX-42602               0                 0                   0                 0
                                            HC -43101               0                 0                   0                 0
TOTAL    06    1960    053    0001          TSP-11101             200            13,334                 220            14,666
                                            CO -42101             200            13,334                 220            14,666
                                            SO2-42401               0                 0                   0                 0
                                            NOX-42602               0                 0                   0                 0
                                            HC -43101           1,050            11,290               1,155            12,419
         06    1960    053    0041    01    TSP-11101               0                 0                   0                 0
                                            CO -42101               0                 0                   0                 0
                                            SO2-42401               0                 0                   0                 0
                                            NOX-42602               0                 0                   0                 0
                                            HC -43101             230            15,333                 253            16,867
         06    1960    053    0041    02    TSP-11101              51             3,400                  56             3,733
                                            CO -42101             230            15,333                 253            16,867
                                            SO2-42401               0                 0                   0                 0
                                            NOX-42602               0                 0                   0                 0
                                            HC -43101               0                 0                   0                 0
TOTAL    06    1960    053    0041          TSP-11101              51             3,400                  56             3,733
                                            CO -42101             230            15,333                 253            16,867
                                            SO2-42401               0                 0                   0                 0
                                            NOX-42602               0                 0                   0                 0
                                            HC -43101             230            15,333                 253            16,867
TOTAL    06    1960    053                  TSP-11101             251            16,734                 276            18,399
                                            CO -42101             430            28,667                 473            31,533
                                            SO2-42401               0                 0                   0                 0
                                            NOX-42602               0                 0                   0                 0
                                            HC -43101           1,280            26,623               1,408            29,286
TOTAL    06    1960                         TSP-11101             251            16,734                 276            18,399
                                            CO -42101             430            28,667                 473            31,533
                                            SO2-42401               0                 0                   0                 0
                                            NOX-42602               0                 0                   0                 0
                                            HC -43101           1,280            26,623               1,408            29,286
         06    2004    053    AQW1    10    TSP-11101             100             6,667                 110             7,333
                                            CO -42101             100             6,667                 110             7,333
                                            SO2-42401               0                 0                   0                 0
                                            NOX-42602               0                 0                   0                 0
                                            HC -43101               0                 0                   0                 0
```

Figure PST12-2 - continued. Sample Output

(Page 2 of 3)

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```
                                   EIS/PS MASTER FILE EMISSIONS PROJECTION REPORT                              PAGE

                                                   --------------------- EMISSIONS - TONS PER YEAR ---------------------
                                                   -----BASELINE MASTER FILE ------     -----PROJECTED FILE #    1------
     STATE  COUNTY  AQCR   PLANT  POINT   POLL-ID     CONTROLLED      POTENTIAL           CONTROLLED      POTENTIAL
TOTAL
                                          TSP-11101        1,537         32,065                1,689         35,291
                                          CO -42101          655         42,026                  719         46,225
                                          SO2-42401        1,565          1,565                1,724          1,724
                                          NOX-42602          323            323                  354            354
                                          HC -43101        1,293         26,735                1,421         29,396
```

Figure PST12-2 - continued. Sample Output
(Page 3 of 3)

EIS/PS Test 13

Retrieve an Answer File Using an EIS/PS Retrieval

In this test run, a retrieval is performed on the master file. To accomplish this, the cataloged procedure EPRTM10 is used first to execute the retrieval language processor program, PRTLNGP (EP0140); the COBOL compiler; and the linkage editor to create the generated retrieval program, PRTGENR (EP0150). Then, the cataloged procedure EPRTM20 is used to execute PRTGENR (EP0150). The advantage of using these separate procedures instead of the single retrieval cataloged procedure, EPRTM30, is that the retrieval program does not have to be regenerated from the retrieval specifications each time a new master file is to be used.

For a discussion of the retrieval programs, PRTLNGP (EP0140) and PRTGENR (EP0150), refer to Test 10.

The run stream for this test run contains the JCL needed to generate an answer file using the EIS/PS retrieval language. This run stream is shown in Figure PST13-1. Sample output from this run stream is shown in Figure PST13-2.

First, the cataloged procedure EPRTM10 is executed to generate the retrieval program load module which is named PRTPROG by the use of a substitutable parameter. The user must supply the DD (data definition) information for the retrieval specification card file in the COMPILE step.

Next, cataloged procedure EPRTM20 is used to execute the retrieval program load module, PRTPROG. The input master file used is EPMSTR5 (created in Test 11) and the output answer file produced is named EPANS02. The load module and the two files are all specified using substitutable parameters.

```
//PSTEST13 JOB         (ACCOUNTING INFO)
//*
//*    RETRIEVE AN ANSWER FILE USING TWO PROCEDURES
//*
//TEST13A EXEC EPRTM1D,
//        PGMSAVE=PRTPROG
//*
//*    GENERATE THE RETRIEVAL LOAD MODULE
//*
//COMPILE.INPUT DD *
*$SELECT
AQCR                                       = '240'                                    AND
POLLUTANT-ID                               = POLLUTANT-ID                             AND
(POLLUTANT-ID                              = '42602'                                  OR
POLLUTANT-ID                               = '11101')
$$END
//TEST13B EXEC EPRTH2D,
//        PROGRAM=PRTPROG,
//        MSTRFIL=EPMSTR5,
//        ANSWRFL=EPANS02
//*
//*    RETRIEVE AN ANSWER FILE USING THE GENERATED LOAD
//*    MODULE IN STEP A AND THE MASTER FILE FROM TEST 11.
//*
```

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Figure PST13-1. Run Stream

```
                        EIS/PS RETRIEVAL LANGUAGE PROCESSOR  -  DIAGNOSTIC MESSAGES                    PAGE     1

PROGRAM NAME: PRTLNGP (EP0140)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


INPUT (CONTROL CARDS)

$$SELECT

AQCR                              = '240'                          AND

POLLUTANT-ID                      = POLLUTANT-ID                   AND

(POLLUTANT-ID                     = '42602'                        OR

POLLUTANT-ID                      = '11101')

$$END


NUMBER OF CONTROL CARDS READ:       6
NUMBER OF ERRORS DETECTED:          0

----------------------------------------------------------------------------------------------------------


                        EIS/PS GENERATED RETRIEVAL PROGRAM  -  DIAGNOSTIC REPORT                       PAGE     1



PROGRAM NAME: PRTGENR (EP0150)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF MASTER FILE RECORDS READ:        162
NUMBER OF ANSWER FILE RECORDS WRITTEN:      40
NUMBER OF ERRORS DETECTED:                   0
```

Figure PST13-2. Sample Output

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EIS/PS Test 14

Produce a Detailed Report of an Answer File

In this test run, a detailed report of an answer file is generated using the cataloged procedure EPRPM20. This procedure executes PRPMSTR (EP0210), the master file detailed report program.

For a description of PRPMSTR (EP0210) refer to EIS/PS Test 9.

The run stream for this test run contains the JCL needed to produce a detailed report of a master or answer file. The run stream is shown in Figure PST14-1.

The cataloged procedure executed by the run stream is EPRPM20. The input file is EPANS02 (created in EIS/PS Test 13) as specified by a substitutable parameter. For sample output from this test run see Figure PST14-2.

```
//PSTEST14 JOB    (ACCOUNTING INFO)
//*
//*   PRODUCE A DETAILED REPORT OF AN ANSWER FILE
//*
//TEST14A EXEC EPRPR20,
//       MSTRFIL=FPANS02
//*
//*   WRITE THE DETAILED REPORT OF THE ANSWER FILE THAT
//*   WAS CREATED IN TEST 13
//*
```

Figure PST14-1. Run Stream

```
                 EIS/PS MASTER FILE DETAILED REPORT PROGRAM - DIAGNOSTIC REPORT                    PAGE 1

PROGRAM NAME: PRPMSTR (EP0210)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF SEGMENT 0 RECORDS PRINTED:          11
NUMBER OF SEGMENT 1 RECORDS PRINTED:          15
NUMBER OF SEGMENT 2 RECORDS PRINTED:          14
NUMBER OF SEGMENT 3 RECORDS PRINTED:           0
```

Figure PST14-2. Sample Output

(Page 1 of 2)

```
                                       EIS/PS MASTER FILE DETAILED REPORT                                      PAGE    1

         STATE COUNTY AQCR PLANT ID
           08   0008   240   8002

  DATE     SEGMENT   CONTROL  LOCAL                                                                   PRINCIPAL
YEAR DAY     TYPE    REGION   CONTROL   PLANT ID    CITY UTM ZONE OWNER     CONTACT       TELEPHONE    PRODUCT
 77  000      0                                             18      P   R.A.LJONES

                                                  NUMBER OF  PROPERTY
ESTABLISHMENT NAME AND ADDRESS             ZIP    EMPLOYEES    AREA     MAILING ADDRESS                            ZIP
GENERAL INC TAYLOR

                                                      NEDS FLAG  PLANT FLAG  E I S   F L A G S
P7 PLANT COMMENT                                         P1          P7        1   2   3   4
                                                          S           S        S   S   S   S

  DATE   SEGMENT POINT   USER              UTM COORDINATES    LATITUDE     LONGITUDE   ANNUAL THRUPUT   NORMAL OPERATING
YEAR DAY    TYPE  ID   POINT ID SIC  IPP HORIZONTAL VERTICAL DEG MIN SEC  DEG MIN SEC  DEC MAR JUN SEP  HR/D D/WK WK/YR
 77  000    1     01            0142       121.8     0042.9                             25  25  25  25   08   6    52

BOILER   SPACE  S    T    A    C    K         D    A    T    A       COMP SCHED   COMP STATUS         CONTROL REGULATION
CAPACITY HEAT   HEIGHT DIAM TEMP FLOW RATE VELOCITY PLUME PNTS  COMP YEAR MONTH  YEAR MONTH DAY  ECAP REG 1 REG 2 REG 3
 00002    00.0   0007  00.8 0080  0000360            0000         1               77   10    31    1

                                                      N E D S    F L A G S POINT FLAG  E I S   F L A G S
P7 POINT COMMENT                                      P2  P3  P4  P5  PWCS      P7        11   12   14
                                                       S   S   S   S             S         S    S    S

NUMBER OF  POLLUTANT CONTROL  CONTROL EQUIP ESTM CNTL        E M I S S I O N S                      ESTM   TEST  EIS FLG
POLLUTANTS    ID      COST      PRI  SEC    EFFICIENCY ESTIMATE MEASURED ALLOWABLE POTENTIAL UNITS METHOD METHOD   13
    05       TSP                000  000       00.0     0000000           0000001                     3             S
             NOX                000  000       00.0     0000000                                       3             S
             CO                 000  000       00.0     0000000           9999999                     3             S
             SO2                000  000       00.0     0000001           9999999                     3             S
             HC                 021  000       99.0     0000000           9999999                     3             S

  DATE   SEGMENT POINT     SCC     SCC SEG   BEC         FUEL -   MAX DESIGN  SULFUR    ASH    HEAT
YEAR DAY   TYPE   ID   I II III IV   NBR   NBR ID  UNITS PROCESS     RATE     CONTENT CONTENT CONTENT CONF SOURCE
 80  060    2     01   1 02 005 03    00                 0000017   0000.010    0.25     00.0  00108     1    B

                                                      NEDS FLAG  SCC FLAG  E I S   F L A G S
P7 SCC COMMENT                                          P6          P7      21  22  24  25
                                                          S          S        S   S   S   S

                          E F    NUMBER OF  POLLUTANT  EMISSION   ASH /  FACTOR EMISSIONS EIS FLAG
SOURCE DESCRIPTION       SOURCE  EMSN FCTR     ID       FACTOR    SULFUR  UNITS   APPORT     23
                            F        05        HC      000001.000                0000000      S
                                               NOX     000022.000                0000000      S
                                               SO2     000144.000    S           0000000      S
                                               CO      000005.000                0000000      S
```

Figure PST14-2 - continued. Sample Output

(Page 2 of 2)

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EIS/PS Test 15

Produce a Sorted File Using the Sort Generator

In this test run a sorted file is produced from the master file using cataloged procedure EPSRM30 which executes PSRLNGP (EP0160), the sort language processor program; the COBOL compiler; the linkage editor; and PSRGENR (EP0170), the generated sort program.

PSRLNGP (EP0160) is the first of two EIS/PS programs used to sort the EIS/PS master file. The second program is PSRGENR (EP0170), the program generated by PSRLNGP (EP0160).

PSRLNGP (EP0160) uses the retrieval skeleton program PSRSKEL, which is stored in a cataloged source library, and the user-supplied sort specification cards to build PSRGENR (EP0170), which is referred to as the generated retrieval program.

The sort specification cards consist of sort control cards and sort request cards. The format of the sort specification cards is illustrated in Figure PST15-1. The control cards indicate the beginning and end of the sort specifications: a $$SORT card indicates the beginning of the sort specifcations and a $$END card indicates the end of the sort specifications. Sort request cards follow the $$SORT card. No more than 11 sort request cards can be used, and the sum of the lengths of all the fields in these requests must not exceed 234 characters. Only data names of fields from the plant, point, and fixed portion of the SCC records can be selected in the sort specifications. Figure PST15-2 lists the valid data names and the lengths of the fields.

PSRGENR (EP0170) is produced based on the sort specifications entered into PSRLNGP (EP0160). This generated sort program must be compiled and link edited before it is executed. When it is executed, it reads the EIS/PS master file and produces a file of sorted records. The records contained in the output file will depend on the specified sort fields and their corresponding record type. All records in the sorted answer file will be in master file format, but the number of records will vary as follows:

Plant record sort fields: Each plant record will be accompanied by its associated point and SCC records. No new records are created.

Point record (fixed portion) sort fields: Each point record will be preceded by a copy of its associated plant record and followed by its associated SCC records. Thus, a new plant record is created for every point record.

Point record (repeating section) sort fields: A point record will be created for each pollutant in the repeating section of the original point record. Each of these new records will contain all of the information (i.e., all repeating sections) that was present in the original record. In addition, there will be one plant record and all the associated SCC records for each of the new point records. Thus, plant, point, and SCC records are created.

SCC record (fixed portion) sort fields: For each SCC record, a copy of the associated plant and point records accompany it. That is, both plant and point records are created.

Sort fields from the repeating section of the point record and the fixed portion of the SCC record: Records will be created to allow sets of one plant record, one point record, and one SCC record. There will be a set for each repeating section or pollutant in the point record. Thus, all three types of records can be created.

The sort order of the records in the answer file will be dependent on the order in which the sort request cards are input to PSRLNGP (EP0160). The first sort request card specifies the highest subfield of the sort key (most significant), the next card specifies the next lower subfield, . . . and the last card specifies the lowest subfield (least significant).

Two things should be noted about the sorted answer file. First, the sorted answer file contains no comment records. Second, as records are created, the size of the sorted answer file may be much greater than the original file. As an example, consider one plant with two points, each having 5 pollutants, and with 4 SCC records for each point. In the original file, there would be 11 records. The sorted answer file would then contain 11-120 records as outlined below:

11 records if only plant record fields are used for sorting.

12 records if the sort fields come from the fixed portion of the point record. An additional plant record is created so that each point record has its own plant record.

60 records if the sort fields come from the repeating section of the point record. Each of the 5 pollutants for a point will now have one point, one plant' and 4 SCC records (a total of 6 records), and there are 10 pollutants in all.

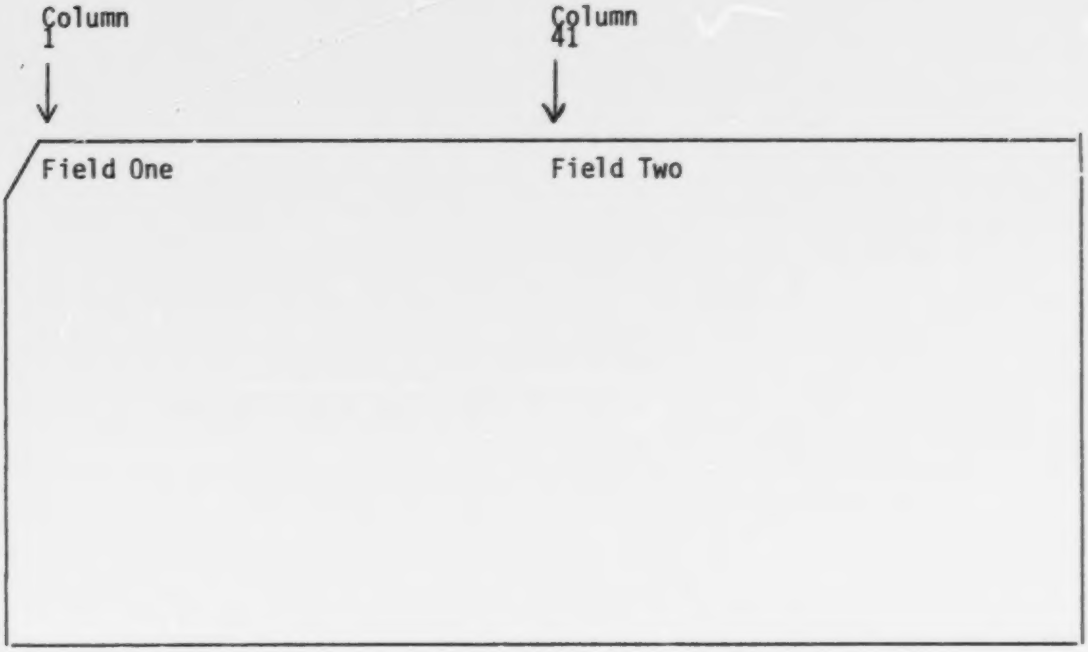
24 records if the sort fields come from the fixed portion of the SCC record. Each of the 8 SCC records will have its own associated plant and point records, giving 3 records per SCC.

120 records if the sort fields come from both the repeating section of the record and the fixed section of the SCC record; that is, 10 pollutants with 3 records each for each of the 4 SCC records per point.

If the sort fields come from more than one type of record, the highest possible number of records will be generated.

The run stream for this test run contains the JCL needed to produce a sorted answer file from an EIS/PS master file. This run stream is shown in Figure PST15-3.

The cataloged procedure executed by this run stream is EPSRM30. Through the use of substitutable parameters, the input master file is specified as EPMSTR5 (created in Test 11) and the output answer file is named EPSRT01. The user must supply the appropriate DD (data defintion) information for the input sort specification card file in the COMPILE step. Refer to Figure PST15-4 for the sample output produced by this test run.



Note:

1. The first card in the sort specifications must contain $$SORT in field one.
2. The last card in the sort specifications must contain $$END in field one.
3. The sort request cards must contain a valid data name in field one and a sort sequence code in field two (A for ascending and D for descending).

Figure PST15-1. Format of Sort Specification Cards

Valid Data Names for Sort (Plant Data)

Data Name	Field Length	Data Name	Field Length
AQCR	3	RECORD-O-DAY	3
CITY	4	RECORD-O-YEAR	2
CONTACT	15	SEG-O-ID	1
COUNTY	4	STATE	2
DATE-OF-O-RECORD	5	TELEPHONE	10
ESTABLISHMENT	48	USER-CONTROL-REGION	3
LOCAL-CONTROL	2	USER-PLANT-ID	12
MAILING-ADDRESS	48	UTM-ZONE	2
NUMBER-OF-EMPLOYEES	4		
OWNER	1		
PLANT-ID	8		
PRINCIPAL-PRODUCT	10		
PROPERTY-AREA	6		

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Figure PST15-2. Valid Sort Data Names

Valid Data Names for Sort (Point Data)

Data Name	Field Length	Data Name	Field Length	Data Name	Field Length
ANNUAL-THRUPUT	8	LATITUDE-DEGREE	2	SCHEDULE-MONTH	2
BOILER-DESIGN-CAPACITY	5	LATITUDE-MINUTE	2	SCHEDULE-YEAR	2
COMPLIANCE-SCHEDULE	4	LATITUDE-SECOND	2	SEG-1-ID	1
COMPLIANCE-STATUS	1	LONGITUDE	7	SEP-NOV	2
COMPLIANCE-STATUS-UPDATE	6	LONGITUDE-DEGREE	3	SIC	4
CONTROL-REGULATIONS	12	LONGITUDE-MINUTE	2	SPACE-HEAT	3
DATE-OF-1-RECORD	5	LONGITUDE-SECOND	2	STATUS-DAY	2
DAY-WEEK	1	MAR-MAY	2	STATUS-MONTH	2
DEC-FEB	2	NBR-OF-POLLUTANTS	2	STATUS-YEAR	2
DIAMETER	3	NEDS-POINT-ID	4	TEMPERATURE	4
ECAP	1	NORMAL-OPERATING	5	USER-POINT-ID	3
FLOW-RATE	7	PLUME	4	UTM-COORDINATES	9
HEIGHT	4	POINTS-PER-STACK	4	VELOCITY	5
HORIZONTAL	4	RECORD-1-DAY	3	VERTICAL	5
HOURS-DAY	2	RECORD-1-YEAR	2	WEEK-YEAR	2
IPP	2	REG-1	4		
JUN-AUG	2	REG-2	4		
LATITUDE	6	REG-3	4		

(Page 2 of 4)

Figure PST15-2 - continued. Valid Sort Data Names

Valid Data Names for Sort (Repeating Point Data)

Data Name	Field Length	Data Name	Field Length
ALLOWABLE	7	ESTIMATION-METHOD	1
CNTL-EQUIP-COST	7	MEASURED	7
CONTROL-EQUIPMENT	6	POLLUTANT-ID	5
EMISSION-UNITS	1	PRIMARY-CNTL	3
EST-CONTROL-EFF	3	SECONDARY-CNTL	3
ESTIMATES	7	TEST-METHOD	1

(Page 3 of 4)

Figure PST15-2 - continued. Valid Sort Data Names

Valid Data Names for Sort (SCC Data)

Data Name	Field Length	Data Name	Field Length
ASH-CONTENT	3	RECORD-2-DAY	2
BEC	5	SCC	8
BEC-ID	2	SCC-I	1
BEC-NUMBER	3	SCC-II	2
CONFIDENTIALITY	1	SCC-III	3
DATE-OF-2-RECORD	5	SCC-IV	2
EMISSION-FACTOR-SOURCE	1	SCC-SEQ-NBR	2
FUEL-PROCESS-RATE	7	SEG-2-ID	1
FUEL-UNITS	1	SEG-2-POINT-ID	2
HEAT-CONTENT	5	SOURCE-CODE	1
MAX-DESIGN-RATE	7	SOURCE-DESCRIPTION	25
NUMBER-OF-EF	2	SULFUR-CONTENT	3
RECORD-2-YEAR	2		

(Page 4 of 4)

Figure PST15-2 - continued. Valid Sort Data Names

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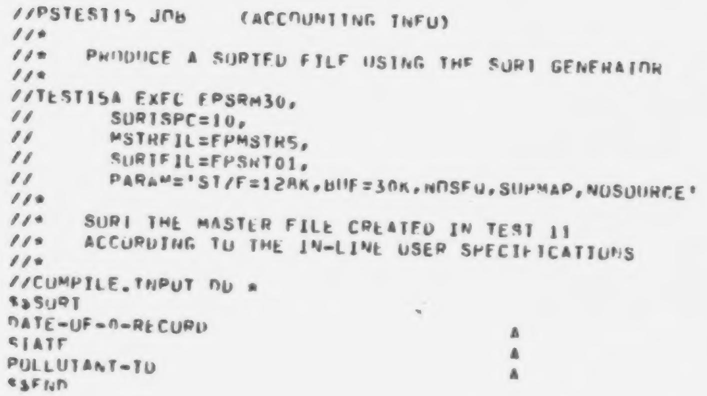

```
//PSTEST15 JOB    (ACCOUNTING INFO)
//*
//*   PRODUCE A SORTED FILE USING THE SORT GENERATOR
//*
//TEST15A EXEC FPSRM30,
//       SORTSPC=10,
//       MSTRFIL=FPMSTR5,
//       SORTFIL=FPSRT01,
//       PARAM='ST/F=128K,BUF=30K,NOSEQ,SUPMAP,NOSOURCE'
//*
//*   SORT THE MASTER FILE CREATED IN TEST 11
//*   ACCORDING TO THE IN-LINE USER SPECIFICATIONS
//*
//COMPILE.INPUT DD *
$$SORT
DATE-OF-O-RECORD                            A
STATE                                       A
POLLUTANT-ID                                A
$$END
```

Figure PST15-3. Run Stream

```
                       EIS/AS SORT LANGUAGE PROCESSOR PROGRAM  -  DIAGNOSTIC REPORT                            PAGE    1

PROGRAM NAME: PSRLNGP (EP0160)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

INPUT (CONTROL CARDS):

$$SORT

DATE-OF-O-RECORD                           A

STATE                                      A

POLLUTANT-ID                               A

$$END


NUMBER OF INPUT CONTROL CARDS:          5
NUMBER OF ERROR MESSAGES:               0
NUMBER OF CONDITIONAL MESSAGES:         0
NUMBER OF WARNING MESSAGES:             0
NUMBER OF ABORT MESSAGES:               0
NUMBER OF DISASTER MESSAGES:            0
```

```
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
                          EIS/PS GENERATED SORT PROGRAM  -  DIAGNOSTIC REPORT                                  PAGE    1

PROGRAM NAME: PSRGENR (EP0170)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF MASTER FILE RECORDS READ:           162
NUMBER OF SEGMENT 3 RECORDS SKIPPED:            8
NUMBER OF SORTED FILE RECORDS WRITTEN:        779
NUMBER OF ERRORS DETECTED:                      0
```

Figure PST15-4. Sample Output

EIS/PS Test 16 - Ad Hoc

Generate All Non-Abortive Error Messages of the Emission Factor File Edit-Maintenance Program

In this test run, all non-abortive error messages of PEMEFAC (EP0040) are generated using the cataloged procedure EPEME10 which executes PSREFTR (EP0030), the emission factor file transaction sort program; and PEMEFAC (EP0040), the emission factor file edit-maintenance program.

Specially coded EIS/PS emission factor file transactions are used to generate the error messages of PEMEFAC (EP0040). These transactions are sorted by PSREFTR (EP0030) into the sequence required by PEMEFAC (EP0040). See EIS/PS Test 1 for a discussion of these programs.

The run stream for this test run contains the JCL needed to update the test emission factor file created in Test 3. It also contains the specially coded emission factor file transactions which cause the error messages to be generated. An option card is supplied as input to PEMEFAC (EP0040). The run stream for this test run is shown in Figure PST16-1 and the sample output produced by this run stream is shown in Figure PST16-2.

Substitutable parameters are used to supply the names of the input emission factor and description files and the output emission factor and description files. The names of these files are EPEMFC2 (created in Test 3), EPDESC2 (created in Test 3), EPEMFC3, and EPDESC3, respectively. The DD (data definition) information for the transactions input to PSREFTR (EP0030) and the option card input to PEMEFAC (EP0040) is also supplied.

The LIST option is purposely specified incorrectly so that message 4 will be generated. The FLAGW option is specified correctly so that all warning messages will be generated; therefore, message 3 (which indicates an invalid FLAGW option) will not be generated.

Error messages 22 and 32 of PEMEFAC (EP0040) are not generated since PSREFTR (EP0030) will reject all transactions that contain an invalid action code or emission factor origin. Messages 1, 2, 5, 6, 7, 8, 9, 12, 33, 34, 38, 40, and 41 are not generated since they are abortive in nature.

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```
//PSTEST16 JOB    (ACCOUNTING INFO)
//*
//*    GENERATE NON-ABORTIVE ERROR MESSAGES OF PEMEFAC (EP0040)
//*    WHILE UPDATING THE EMISSION FACTOR FILE
//*
//STEP16A EXEC EPEME10,
//        OLDEMFC=EPEMFC2,
//        OLDDESC=EPDESC2,
//        NEWEMFC=EPEMFC3,
//        NEWDESC=EPDESC3
//*
//*    EXECUTE AN EMISSION FACTOR FILE MAINTENANCE UPDATE
//*
//SORT.INPUT DD *
0AICCNUMBR  POLIDYYDDD
4A10100105F 1110180061                       000010000
1A10100106       80061
2A10100106       80061
3A10100106       80061
4A10100106F 1110180061                       000010000
1A11111111F 1110180155
4A11111111FF      80155                   AS//                CDE
0A11111111F 0000080155                                  ASHSUI
1A22222222        80155
4A22222222F 1110180155                       000000200001002
1A33333333        80155
2A33333333        80155
3A33333333        80155
4A33333333S 0000080155
4A33333333S 1110180155                       000000300
4A33333333S 1110280155                       000000400
4A33333333S 1110380155                       000000500
4A33333333S 1110480155                       000000600
4A33333333S 1110580155                       000000700
4A33333333S 1110680155                       000000800
4A33333333S 1110780155                       000000900
4A33333333S 1110880155                       000000100
4A33333333S 1110980155                       000000200
4A33333333S 1111180155                       000000300
4A33333333S 1111280155                       000000400
4A33333333S 1111380155                       000000500
4A33333333S 1111480155                       000000600
4A33333333S 1111580155                       000000700
4A33333333S 1111680155                       000000800
4A33333333S 1111780155                       000000200
4A33333333S 1111880155                       000000500
4C33333333S 1111880155
1A33333333        80156
2A33333333        80156
3A33333333        80156
4A33333333S 1110180156                       000000306
1C44444444        80156
1D22222222        80156
4A22222222S 3330380156                       000000500
4D22222222S 3330380156
4C50300101L31110180300                       000000200
4A77777777S 1110180156                       000000400
//UPDATE.OPTIONS DD *
80155 FLAGW LIST
```

Figure PST16-1. Run Stream

```
                    EIS/PS EMISSION FACTOR FILE TRANSACTION SORT PROGRAM  -  DIAGNOSTIC REPORT                          PAGE     1

PROGRAM NAME: PSREFTR (EP0030)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

1A11111111F 1110180155
*** PSREFTR 003 WARNING - EF ORIGIN OR EF SOURCE NOT BLANK, REPLACING SPACE

NUMBER OF TRANSACTIONS READ:                                         43
NUMBER OF TRANSACTIONS WRITTEN:                                      44
NUMBER OF ERRORS DETECTED:                                            1
NUMBER OF TRANSACTIONS REJECTED:                                      0
```

Figure PST16-2. Sample Output

(Page 1 of 4)

```
                     EIS/PS EMISSION FACTOR FILE EDIT-MAINTENANCE PROGRAM  -  DIAGNOSTIC REPORT                      PAGE      1

PROGRAM NAME: PEMEFAC (EP0040)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD

80155 FLAGW LOST
          *** PEMEFAC 004 CONDITIONAL - LIST OPTION INVALID, USED DEFAULT OF NO LIST

   CONTROL DATE IS 80155,  ERROR OPTION IS FLAGW  ,  LIST OPTION IS NOLIST



0A1CCNUMBR  PULIDYYDDD
B B      E  B  EB   E
          *** PEMEFAC 021 ERROR - COLUMN 1 - CARD TYPE INVALID, CARD REJECTED
          *** PEMEFAC 023 ERROR - COLUMN 3 - SCC NUMBER NOT NUMERIC, CARD REJECTED
          *** PEMEFAC 024 ERROR - COLUMN 13 - POLLUTANT ID INVALID, CARD REJECTED
          *** PEMEFAC 013 ERROR - COLUMN 18 - SCC DATE INVALID, CARD REJECTED

1A10100106       80061

          *** PEMEFAC 025 ERROR - ADD SPECIFIED FOR EXISTING SCC DESC RECORD, CARD REJECTED

2A10100106       80061

          *** PEMEFAC 025 ERROR - ADD SPECIFIED FOR EXISTING SCC DESC RECORD, CARD REJECTED

3A10100106       80061

          *** PEMEFAC 025 ERROR - ADD SPECIFIED FOR EXISTING SCC DESC RECORD, CARD REJECTED

4A10100106F 1110180061                          000010000

          *** PEMEFAC 028 ERROR - ADD SPECIFIED FOR EXISTING SCC EMF RECORD, CARD REJECTED

4A11111111F 0000080155                                   ASHSUL
                                                         B EB E
          *** PEMEFAC 017 ERROR - COLUMN 58 - ASH CONTENT NOT NUMERIC, CARD REJECTED
          *** PEMEFAC 018 ERROR - COLUMN 61 - SULFUR CONTENT NOT NUMERIC, CARD REJECTED

4A11111111FF     80155                      AS//                 CDE
           BB   E                         B  EBEB        E       B E
          *** PEMEFAC 014 ERROR - COLUMN 43 - FLAGS INVALID, CARD REJECTED
          *** PEMEFAC 015 WARNING - COLUMN 47 - UNIT OF MEASURE INVALID, CARD ACCEPTED
          *** PEMEFAC 016 ERROR - COLUMN 49 - EMISSION FACTOR NOT NUMERIC, CARD REJECTED
```

Figure PST16-2 - continued. Sample Output
(Page 2 of 4)

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                       EIS/PS EMISSION FACTOR FILE EDIT-MAINTENANCE PROGRAM  -  DIAGNOSTIC REPORT                              PAGE      2

          *** PEMEFAC 019 ERROR - COLUMN 64 - CONTROL DEVICE EFFICIENCY NOT NUMERIC, CARD REJECTED
          *** PEMEFAC 020 ERROR - COLUMN 13 - POLLUTANT ID FIELD REQUIRED ON TYPE 4, CARD REJECTED
          *** PEMEFAC 039 ERROR - COLUMN 12 - INVALID EF SOURCE TYPE, CARD REJECTED

1A11111111  1110180155
          *** PEMEFAC 010 ERROR - NEW SCC DESC RECORD NOT COMPLETE, RECORD REJECTED

1D22222222       80156

          *** PEMEFAC 027 ERROR - DELETE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED

1A22222222       80155
4A22222222F 1110180155                           000000200001002
          *** PEMEFAC 011 ERROR - NEW SCC EMF RECORD NOT COMPLETE, RECORD REJECTED

4A22222222F 1110180155                           000000200001002

          *** PEMEFAC 042 ERROR - ZERO POLLUTANT RECORD MISSING, CARD REJECTED

4D22222222S 3330380156

          *** PEMEFAC 031 ERROR - DELETE SPECIFIED FOR NONEXISTENT SCC EMF RECORD, CARD REJECTED

1A22222222       80155
4A22222222S 3330380156                           000000500
          *** PEMEFAC 011 ERROR - NEW SCC EMF RECORD NOT COMPLETE, RECORD REJECTED

4A22222222S 3330380156                           000000500

          *** PEMEFAC 042 ERROR - ZERO POLLUTANT RECORD MISSING, CARD REJECTED

1A22222222       80155
4A22222222S 3330380156                           000000500
          *** PEMEFAC 010 ERROR - NEW SCC DESC RECORD NOT COMPLETE, RECORD REJECTED

1A33333333       80156

          *** PEMEFAC 036 ERROR - DUPLICATE TYPE 1 ADD TRANSACTION, CARDS REJECTED

4A33333333S 1110180156                           000000300

          *** PEMEFAC 037 ERROR - DUPLICATE TYPE 4 ADD TRANSACTION, CARD REJECTED

333333332 111188015580155                           000000500
          *** PEMEFAC 035 ERROR - MORE THAN 16 POLLUTANTS FOR THIS SCC/ORIGIN/SOURCE COMBINATION

1C44444444       80156

          *** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED
```

Figure PST16-2 - continued. Sample Output (Page 3 of 4)

BEST DOCUMENT AVAILABLE

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                EIS/PS EMISSION FACTOR FILE EDIT-MAINTENANCE PROGRAM  -  DIAGNOSTIC REPORT                          PAGE      3

4C50300101L311101R0390                              000000200

         *** PEMEFAC 030 WARNING - CHANGE SPECIFIED FOR NONEXISTENT SCC EMF RECORD, ACCEPTED AS ADD
         *** PEMEFAC 042 ERROR - ZERO POLLUTANT RECORD MISSING, CARD REJECTED

4A77777777S 1110180156                              000000400

         *** PEMEFAC 029 ERROR - ADD SPECIFIED FOR SCC EMF BUT NO DESC EXISTS FOR SCC, CARD REJECTED

2A33333333       80156
3A33333333       80156
         *** PEMEFAC 010 ERROR - NEW SCC DESC RECORD NOT COMPLETE, RECORD REJECTED


NUMBER OF INPUT TRANSACTIONS READ:                              44
NUMBER OF ABORT MESSAGES:                                        0
NUMBER OF DISASTER MESSAGES:                                     0
NUMBER OF ERROR MESSAGES:                                       30
NUMBER OF WARNING MESSAGES:                                      2
NUMBER OF CONDITIONAL MESSAGES:                                  1
NUMBER OF TRANSACTIONS REJECTED:                                16
NUMBER OF SCC-DESCRIPTION FILE RECORDS READ:                   101
NUMBER OF SCC-DESCRIPTION FILE RECORDS WRITTEN:                101
NUMBER OF SCC-EMISSION-FACTOR FILE RECORDS READ:               638
NUMBER OF SCC-EMISSION-FACTOR FILE RECORDS WRITTEN:            656

PROGRAM NAME: PEMEFAC (EP0040)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
```

Figure PST16-2 - continued. Sample Output (Page 4 of 4)

BEST DOCUMENT AVAILABLE

EIS/PS Test 17 - Ad Hoc

Generate All Non-Abortive Error Messages of the NEDS to EIS/PS Master File Transaction Conversion-Edit Program

In this test run, all non-abortive error messages of PCENETR (EP0060) are generated using the cataloged procedure EPCET10 which executes PSRNETR (EP0050), the NEDS transaction sort program; and PCENETR (EP0060), the NEDS to EIS/PS master file transaction conversion-edit program.

Specially coded NEDS master file transactions are used to generate the error messages of PCENETR (EP0060). These transactions are sorted by PSRNETR (EP0050) into the sequence required by PCENETR (EP0060). See Test 4 for a discussion of these programs.

The run stream for this test run contains the JCL needed to execute the conversion-edit procedure. It also contains the specially coded transactions which cause the error messages to be generated, and an option card which is input to PCENETR (EP0060). The run stream for this test run is shown in Figure PST17-1 and sample output produced by this run stream is shown in Figure PST17-2.

A substitutable parameter is used to supply the name of the internal transaction file output from PCENETR (EP0060). The name of the file is EPINTR4. The DD (data definition) information for the transactions input to PSRNETR (EP0050) and the option card input to PCENETR (EP0060) is also supplied.

The FLAGW and LIST options are purposely specified incorrectly so that messages 89 and 90 will be generated. This will not impede the purpose of this test run since there are no warning messages contained in PCENETR (EP0060). Error messages 87 and 88 are not generated since they are abortive in nature.

BEST DOCUMENT AVAILABLE

```
//PSTEST17 JOB    (ACCOUNTING INFO)
//*
//*    GENERATE NON-ABORTIVE ERROR MESSAGES OF PLENETR (EP0060)
//*
//STEP1/A EXEC EPLET10,
//       INTRTRN=EPINTR4
//*
//*    CONVERT NEDS MASTER FILE TRANSACTIONS TO ETS/PS MASTER
//*    FILE TRANSACTIONS
//*
//SUB1.INPUT DD *
STCNTYAQCPLN#  YY                                                     BA8
4400001112222    YY                                               U   AP1
4400001112222  02                                                     AP1
4400001112222  14                                                     AP1
44000011122222P#             HGHTDIATEMPFLOWRTEPLUM #1                AP2
440000111222211      HORZVERTC0501   5000        0300 6655            AP2
550000111222211      2800305600100888                 #1#2            AP2
550000111222211                                       0102            AP2
550000111222221180HOILRPRTSECPRTSECPRTSECPRTSECPRTSECEFFEFFEFFEFFEFF  AP3
550000111222221180                                   001002003004005  AP3
550000111222221180T1T2T3T4DDWYY                              MMMMMSPH AP4
550000111222221180                                          12445     AP4
550000111222221180112233442565308000011000000111111122222233333312345 AP4
550000111222221180          00250010800000001111111022222203333333    AP4
5500001112222211800025001002600011000001000000222222SCSCHUPDATFE      AP5
550000111222221180ALLOW-1ALLOW-2ALLOW-3ALLOW-4ALLOW-5C89016901016     AP5
55000011122222118011111197PROCESSMAXDSGN                          3   AP6
550000111222221180SCC-CODE                                        C   AP6
55000011122222118011111111                                            OP7
//CONVERT.OPTIONS DD *
80 FLAGS LOST
```

Figure PST17-1. Run Stream

```
                                    EIS/PS NEDS TRANSACTION SORT PROGRAM  -  DIAGNOSTIC REPORT                              PAGE      1

  PROGRAM NAME: PSRNETR (EP0050)
  REVISION LEVEL: 1-00
  LAST UPDATE #: P-1
  DATE INCORPORATED: FEBRUARY 1, 1980

 NUMBER OF INPUT TRANSACTIONS:        19
 NUMBER OF OUTPUT TRANSACTIONS:        19
```

Figure PST17-2. Sample Output

(Page 1 of 6)

```
                              NEDS TO FIS/PS CONVERSION-EDIT PROGRAM  -  DIAGNOSTIC REPORT                                   PAGE      1

PROGRAM NAME: PCENETR (EP0060)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD

80 FLAGG LOST


          *** PCENETR 089 CONDITIONAL - INVALID FLAGW OPTION, DEFAULT (NOFLAGW) ASSUMED


          *** PCENETR 090 CONDITIONAL - INVALID LIST OPTION, DEFAULT (NOLIST) ASSUMED

   CONTROL DATE IS 80   ,  ERROR OPTION IS NOFLAGW,  LIST OPTION IS NOLIST




STCNTYAUCPLN#  YY                                                             BA8
REB  ER EB  EBEBE                                                             BBB
          *** PCENETR 001 ERROR - COLUMN 01 - INVALID STATE CODE, CARD REJECTED
          *** PCENETR 002 ERROR - COLUMN 03 - NON-NUMERIC COUNTY CODE, CARD REJECTED
          *** PCENETR 003 ERROR - COLUMN 07 - INVALID AQCR CODE, CARD REJECTED
          *** PCENETR 004 ERROR - COLUMN 79 - INVALID ACTION TYPE, CARD REJECTED
          *** PCENETR 005 ERROR - COLUMN 78 - INVALID CARD TYPE, CARD REJECTED
          *** PCENETR 006 ERROR - COLUMN 80 - INVALID CARD NUMBER, CARD REJECTED
          *** PCENETR 013 CONDITIONAL - COLUMN 16 - INVALID YEAR
          *** PCENETR 007 ERROR - COLUMN 10 - INVALID PLANT ID, CARD REJECTED
          *** PCENETR 014 ERROR - COLUMN 14 - INVALID POINT ID, CARD REJECTED
          *** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED
          *** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED
          *** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED

4400001112222    14                                                           AP1
                 BE  B                                      E             B
          *** PCENETR 009 CONDITIONAL - COLUMN 18 - UTM-ZONE OUT OF RANGE
          *** PCENETR 011 ERROR - COLUMN 22 - NAME/ADDRESS FIELD BLANK FOR ADD TRANSACTION, CARD REJECTED
          *** PCENETR 012 CONDITIONAL - COLUMN 74 - INVALID OWNERSHIP CODE

4400001112222    U7                                                           AP1
                 BE  B                                      E             B
          *** PCENETR 092 ERROR - COLUMN 18 - UTM ZONE NOT NUMERIC, CARD REJECTED
          *** PCENETR 011 ERROR - COLUMN 22 - NAME/ADDRESS FIELD BLANK FOR ADD TRANSACTION, CARD REJECTED
          *** PCENETR 012 CONDITIONAL - COLUMN 74 - INVALID OWNERSHIP CODE
```

Figure PST17-2 - continued. Sample Output (Page 2 of 6)

```
                        NEDS TO EIS/PS CONVERSION-EDIT PROGRAM  -  DIAGNOSTIC REPORT                                PAGE     2

4400001112222      YY                                                    D   AP1
                 BEBEB                                       E           B
          *** PCENETR 008 CONDITIONAL - COLUMN 18 - UTM-ZONE BLANK FOR ADD TRANSACTION
          *** PCENETR 010 CONDITIONAL - COLUMN 20 - INVALID YEAR
          *** PCENETR 011 ERROR - COLUMN 22 - NAME/ADDRESS FIELD BLANK FOR ADD TRANSACTION, CARD REJECTED
          *** PCENETR 012 CONDITIONAL - COLUMN 74 - INVALID OWNERSHIP CODE

4400001112222P#                 HGHTDIATEMPFLOWRTEPLUM #1                           AP2
             BE         B EB   EB  EB EB  EB      EB  E B  E
          *** PCENETR 014 ERROR - COLUMN 14 - INVALID POINT ID, CARD REJECTED
          *** PCENETR 015 CONDITIONAL - COLUMN 24 - UTM-HORIZONTAL COORDINATE BLANK FOR ADD TRANSACTION
          *** PCENETR 017 CONDITIONAL - COLUMN 28 - UTM-VERTICAL COORDINATE BLANK FOR ADD TRANSACTION
          *** PCENETR 020 ERROR - COLUMN 33 - NON-NUMERIC STACK HEIGHT, CARD REJECTED
          *** PCENETR 022 ERROR - COLUMN 37 - NON-NUMERIC STACK DIAMETER, CARD REJECTED
          *** PCENETR 024 ERROR - COLUMN 40 - NON-NUMERIC STACK TEMPERATURE, CARD REJECTED
          *** PCENETR 025 ERROR - COLUMN 44 - NON-NUMERIC EXHAUST FLOW RATE, CARD REJECTED
          *** PCENETR 027 ERROR - COLUMN 51 - NON-NUMERIC PLUME HEIGHT, CARD REJECTED
          *** PCENETR 041 CONDITIONAL - COLUMN 56 - COMMON STACK POINTS NOT BOTH BLANK FOR ADD TRANSACTION

440000111222211        HORZVERTC0501   5000       0300 6655                         AP2
                       B  EB   EB  E   B  E       B  E B  E
          *** PCENETR 086 ERROR - COLUMN 24 - NON NUMERIC UTM HORIZONTAL, CARD REJECTED
          *** PCENETR 084 ERROR - COLUMN 28 - NON NUMERIC UTM VERTICAL, CARD REJECTED
          *** PCENETR 019 CONDITIONAL - COLUMN 33 - STACK HEIGHT LESS THAN 0 OR GREATER THAN 500
          *** PCENETR 023 CONDITIONAL - COLUMN 40 - INVALID STACK TEMPERATURE
          *** PCENETR 026 CONDITIONAL - COLUMN 51 - INVALID PLUME HEIGHT
          *** PCENETR 042 CONDITIONAL - COLUMN 56 - 1ST COMMON STACK PT NOT LESS THAN 2ND COMMON STACK PT

550000111222211                                       0102                          AP2
             BE         B  EB    E
          *** PCENETR 015 CONDITIONAL - COLUMN 24 - UTM-HORIZONTAL COORDINATE BLANK FOR ADD TRANSACTION
          *** PCENETR 017 CONDITIONAL - COLUMN 28 - UTM-VERTICAL COORDINATE BLANK FOR ADD TRANSACTION
          *** PCENETR 043 CONDITIONAL - COLUMN 14 - NEDS POINT ID NOT WITHIN COMMON STACK POINTS

550000111222211        2800305600100888               #1#2                          AP2
                       B  EB   E    B E               B  E
          *** PCENETR 016 CONDITIONAL - COLUMN 24 - UTM-HORIZONTAL COORDINATE OUT OF RANGE
          *** PCENETR 018 CONDITIONAL - COLUMN 28 - UTM-VERTICAL COORDINATE OUT OF RANGE
          *** PCENETR 021 CONDITIONAL - COLUMN 37 - STACK DIAMETER EXCEEDS (0.2 * STACK HEIGHT)
          *** PCENETR 094 ERROR - COLUMN 56 - INVALID POINTS WITH COMMON STACK, CARD REJECTED

5500001112222211180BOILRPRISECPRISECPRISECPRISECPRISECEFFEFFEFFEFFEFF               AP3
                 B   EB EB EB EB EB EB EB EB EB EB EB EB EB EB EB E
          *** PCENETR 028 ERROR - COLUMN 18 - NON-NUMERIC BOILER DESIGN CAPACITY, CARD REJECTED
          *** PCENETR 095 ERROR - COLUMN 23 - INVALID PRIMARY CONTROL EQUIP FOR TSP, CARD REJECTED
          *** PCENETR 100 ERROR - COLUMN 26 - INVALID SECNDRY CONTROL EQUIP FOR TSP, CARD REJECTED
          *** PCENETR 105 ERROR - COLUMN 53 - NON NUMERIC EST CONTROL EFF FOR TSP, CARD REJECTED
```

Figure PST17-2 - continued. Sample Output (Page 3 of 6)

```
                                NEDS TO EIS/PS CONVERSION-EDIT PROGRAM  -  DIAGNOSTIC REPORT                        PAGE     3

          *** PCENETR 096 ERROR - COLUMN 29 - INVALID PRIMARY CONTROL EQUIP FOR SO2, CARD REJECTED
          *** PCENETR 101 ERROR - COLUMN 32 - INVALID SECNDRY CONTROL EQUIP FOR SO2, CARD REJECTED
          *** PCENETR 106 ERROR - COLUMN 56 - NON NUMERIC EST CONTROL EFF FOR SO2, CARD REJECTED
          *** PCENETR 097 ERROR - COLUMN 35 - INVALID PRIMARY CONTROL EQUIP FOR NOX, CARD REJECTED
          *** PCENETR 102 ERROR - COLUMN 38 - INVALID SECNDRY CONTROL EQUIP FOR NOX, CARD REJECTED
          *** PCENETR 107 ERROR - COLUMN 59 - NON NUMERIC EST CONTROL EFF FOR NOX, CARD REJECTED
          *** PCENETR 098 ERROR - COLUMN 41 - INVALID PRIMARY CONTROL EQUIP FOR HC, CARD REJECTED
          *** PCENETR 103 ERROR - COLUMN 44 - INVALID SECNDRY CONTROL EQUIP FOR HC, CARD REJECTED
          *** PCENETR 108 ERROR - COLUMN 62 - NON NUMERIC EST CONTROL EFF FOR HC, CARD REJECTED
          *** PCENETR 099 ERROR - COLUMN 47 - INVALID PRIMARY CONTROL EQUIP FOR CO, CARD REJECTED
          *** PCENETR 104 ERROR - COLUMN 50 - INVALID SECNDRY CONTROL EQUIP FOR CO, CARD REJECTED
          *** PCENETR 109 ERROR - COLUMN 65 - NON NUMERIC EST CONTROL EFF FOR CO, CARD REJECTED

55000011122221180                                  001002003004005         AP3
          *** PCENETR 110 ERROR - TSP PRI CONT EQUIP AND EST EFF NOT BOTH BLANK FOR ADD, CARD REJECTED
          *** PCENETR 111 ERROR - SO2 PRI CONT EQUIP AND EST EFF NOT BOTH BLANK FOR ADD, CARD REJECTED
          *** PCENETR 112 ERROR - NOX PRI CONT EQUIP AND EST EFF NOT BOTH BLANK FOR ADD, CARD REJECTED
          *** PCENETR 113 ERROR -  HC PRI CONT EQUIP AND EST EFF NOT BOTH BLANK FOR ADD, CARD REJECTED
          *** PCENETR 114 ERROR -  CO PRI CONT EQUIP AND EST EFF NOT BOTH BLANK FOR ADD, CARD REJECTED

550000111222221180112233442585308000011000000111111222222233333312345       AP4
                 B     EHEBBEB     EB     EB     EB     EB     E
          *** PCENETR 029 CONDITIONAL - COLUMN 26 - INVALID DAY FOR OPERATING RATE
          *** PCENETR 031 CONDITIONAL - COLUMN 28 - INVALID WEEK FOR OPERATING RATE
          *** PCENETR 033 CONDITIONAL - COLUMN 29 - INVALID YEAR FOR OPERATING RATE
          *** PCENETR 044 CONDITIONAL - COLUMN 18 - INVALID THRUPUT PERCENTAGE SUM
          *** PCENETR 056 ERROR - COLUMN 31 - TSP EMISSIONS ESTIMATE INVALID, CARD REJECTED
          *** PCENETR 057 ERROR - COLUMN 38 - SO2 EMISSIONS ESTIMATE INVALID, CARD REJECTED
          *** PCENETR 058 ERROR - COLUMN 45 - NOX EMISSIONS ESTIMATE INVALID, CARD REJECTED
          *** PCENETR 059 ERROR - COLUMN 52 - HC EMISSIONS ESTIMATE INVALID, CARD REJECTED
          *** PCENETR 060 ERROR - COLUMN 59 - CO EMISSIONS ESTIMATE INVALID, CARD REJECTED

55000011122221180                                                   12445       AP4
                              B     EB     EB     EB     EB     E
          *** PCENETR 051 ERROR - COLUMN 31 - TSP EMISSIONS ESTIMATE IS BLANK, CARD REJECTED
          *** PCENETR 052 ERROR - COLUMN 38 - SO2 EMISSIONS ESTIMATE IS BLANK, CARD REJECTED
          *** PCENETR 053 ERROR - COLUMN 45 - NOX EMISSIONS ESTIMATE IS BLANK, CARD REJECTED
          *** PCENETR 054 ERROR - COLUMN 52 - HC EMISSIONS ESTIMATE IS BLANK, CARD REJECTED
          *** PCENETR 055 ERROR - COLUMN 59 - CO EMISSIONS ESTIMATE IS BLANK, CARD REJECTED

5500001112222118011T2T314DDWYY                                      MMMMMSPH    AP4
                 B     EBEBBE                                       BBBBBB E
          *** PCENETR 030 ERROR - COLUMN 26 - NON-NUMERIC DAY FOR OPERATING RATE, CARD REJECTED
          *** PCENETR 032 ERROR - COLUMN 28 - NON-NUMERIC WEEK FOR OPERATING RATE, CARD REJECTED
          *** PCENETR 034 ERROR - COLUMN 29 - NON-NUMERIC YEAR FOR OPERATING RATE, CARD REJECTED
          *** PCENETR 035 ERROR - COLUMN 71 - NON-NUMERIC HEATED SPACE PERCENTAGE, CARD REJECTED
          *** PCENETR 045 ERROR - COLUMN 18 - NON-NUMERIC THRUPUT PERCENTAGE, CARD REJECTED
```

Figure PST17-2 - continued. Sample Output

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                              NEDS TO EIS/PS CONVERSION-EDIT PROGRAM  -  DIAGNOSTIC REPORT                      PAGE     4

          *** PCENETR 046 ERROR - COLUMN 66 - TSP ESTIMATION METHOD IS INVALID, CARD REJECTED
          *** PCENETR 047 ERROR - COLUMN 67 - SO2 ESTIMATION METHOD IS INVALID, CARD REJECTED
          *** PCENETR 048 ERROR - COLUMN 68 - NOX ESTIMATION METHOD IS INVALID, CARD REJECTED
          *** PCENETR 049 ERROR - COLUMN 69 - HC ESTIMATION METHOD IS INVALID, CARD REJECTED
          *** PCENETR 050 ERROR - COLUMN 70 - CO ESTIMATION METHOD IS INVALID, CARD REJECTED

55000011122221180             002500108000000111111022222220333333           AP4
                              B     EB     EB     EB     EB     E
          *** PCENETR 061 CONDITIONAL - COLUMN 31 - TSP EMISSIONS ESTIMATE OUT OF RANGE
          *** PCENETR 062 CONDITIONAL - COLUMN 38 - SO2 EMISSIONS ESTIMATE OUT OF RANGE
          *** PCENETR 063 CONDITIONAL - COLUMN 45 - NOX EMISSIONS ESTIMATE OUT OF RANGE
          *** PCENETR 064 CONDITIONAL - COLUMN 52 - HC EMISSIONS ESTIMATE OUT OF RANGE
          *** PCENETR 065 CONDITIONAL - COLUMN 59 - CO EMISSIONS ESTIMATE OUT OF RANGE

55000011122221180ALLOW-1ALLOW-2ALLOW-3ALLOW-4ALLOW-5C89018901016            AP5
                 B     EB     EB     EB     EB     EBB  EB    EB
          *** PCENETR 037 CONDITIONAL - COLUMN 64 - INVALID ECAP CODE
          *** PCENETR 040 ERROR - COLUMN 53 - NON-NUMERIC COMPLIANCE STATUS, CARD REJECTED
          *** PCENETR 071 ERROR - COLUMN 18 - TSP ALLOWABLE EMISSIONS NON-NUMERIC, CARD REJECTED
          *** PCENETR 072 ERROR - COLUMN 25 - SO2 ALLOWABLE EMISSIONS NON-NUMERIC, CARD REJECTED
          *** PCENETR 073 ERROR - COLUMN 32 - NOX ALLOWABLE EMISSIONS NON-NUMERIC, CARD REJECTED
          *** PCENETR 074 ERROR - COLUMN 39 - HC ALLOWABLE EMISSIONS NON-NUMERIC, CARD REJECTED
          *** PCENETR 075 ERROR - COLUMN 46 - CO ALLOWABLE EMISSIONS NON-NUMERIC, CARD REJECTED
          *** PCENETR 081 CONDITIONAL - COLUMN 58 - COMPLIANCE UPDATE GREATER THAN CURRENT DATE
          *** PCENETR 083 CONDITIONAL - COLUMN 54 - COMPLIANCE SCHEDULE NOT WITHIN 5 YEARS

55000011122221180002500100260001100000100000022222225CSCHUPDATEE            AP5
                 B     EB     EB     EB     EB     EBB  EB    EB
          *** PCENETR 038 ERROR - COLUMN 64 - NON-NUMERIC ECAP CODE, CARD REJECTED
          *** PCENETR 039 CONDITIONAL - COLUMN 53 - INVALID COMPLIANCE STATUS
          *** PCENETR 066 CONDITIONAL - COLUMN 18 - TSP ALLOWABLE EMISSIONS OUT OF RANGE
          *** PCENETR 067 CONDITIONAL - COLUMN 25 - SO2 ALLOWABLE EMISSIONS OUT OF RANGE
          *** PCENETR 068 CONDITIONAL - COLUMN 32 - NOX ALLOWABLE EMISSIONS OUT OF RANGE
          *** PCENETR 069 CONDITIONAL - COLUMN 39 - HC ALLOWABLE EMISSIONS OUT OF RANGE
          *** PCENETR 070 CONDITIONAL - COLUMN 46 - CO ALLOWABLE EMISSIONS OUT OF RANGE
          *** PCENETR 080 ERROR - COLUMN 58 - INVALID COMPLIANCE UPDATE, CARD REJECTED
          *** PCENETR 082 ERROR - COLUMN 54 - INVALID COMPLIANCE SCHEDULE, CARD REJECTED

55000011122221180SCC-CODE                                                   C     AP6
                 B     E                                                    B
          *** PCENETR 091 ERROR - COLUMN 18 - NON-NUMERIC SCC CODE, CARD REJECTED
          *** PCENETR 077 CONDITIONAL - COLUMN 72 - INVALID CONFIDENTIALITY CODE

5500001112222118011111111                                                         DP7
                                                                                   B
          *** PCENETR 093 ERROR - COLUMN 80 - INVALID CARD NUMBER FOR DELETE, CARD REJECTED

55000011122221180111111197PROCESSMAXDSGN                                    3     AP6
                         B     EB     E           B                  E B
```

Figure PST17-2 - continued. Sample Output

(Page 5 of 6)

```
                    NEDS TO EIS/PS CONVERSION-EDIT PROGRAM  -  DIAGNOSTIC REPORT                          PAGE     5

         *** PCENETR 036 CONDITIONAL - COLUMN 51 - SOURCE DESCRIPTION BLANK FOR ADD TRANSACTION
         *** PCENETR 076 ERROR - COLUMN 72 - CONFIDENTIALITY OF 3 NOT ALLOWED, CARD REJECTED
         *** PCENETR 078 ERROR - COLUMN 26 - NON-NUMERIC FUEL PROCESS RATE, CARD REJECTED
         *** PCENETR 079 ERROR - COLUMN 33 - NON-NUMERIC MAXIMUM DESIGN CAPACITY, CARD REJECTED

NUMBER OF TRANSACTIONS READ:                       19
NUMBER OF INTERNAL TRANSACTIONS WRITTEN:            6
NUMBER OF TRANSACTIONS REJECTED:                   17
NUMBER OF ABORT MESSAGES:                           0
NUMBER OF ERROR MESSAGES:                          79
NUMBER OF CONDITIONAL MESSAGES:                    42
NUMBER OF WARNING MESSAGES:                         0

PROGRAM NAME: PCENETR (EP0060)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
```

Figure PST17-2 - continued. Sample Output (Page 6 of 6)

EIS/PS Test 18 - Ad Hoc

Generate All Non-Abortive Error Messages of the Master File Transaction Edit Program

In this test run, all non-abortive error messages of PEDMSTR (EP0080) are generated using the cataloged procedure EPEDT10 which executes PSRMFTR (EP0070), the EIS/PS master file transaction sort program; and PEDMSTR (EP0080), the master file transaction edit program.

Specially coded EIS/PS master file transactions are used to generate the error messages of PEDMSTR (EP0080). These transactions are sorted by PSRMFTR (EP0070) into the sequence required by PEDMSTR (EP0080). See Test 5 for a discussion of these programs.

The run stream for this test run contains the JCL needed to sort and edit the specially coded transactions. These transactions and the option card input to PEDMSTR (EP0080) are also included in the run stream. The run stream for this test run is shown in Figure PST18-1 and the sample output produced by this test run is shown in Figure PST18-2.

A substitutable parameter is used to supply the name of the internal transaction file output from PEDMSTR (EP0080). The name of the file is EPINTR5. The DD (data definition) information for the transactions input to PSRMFTR (EP0070) and the option card input to PEDMSTR (EP0080) are also supplied.

The LIST option is purposely specified incorrectly so that message 4 will be generated. The FLAGW option is specified correctly so that all warning messages will be generated. Error messages 1, 2, and 3 are not generated since they are abortive in nature.

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```
//PSTEST18 JOB     (ACCOUNTING INFO)
//*
//*   GENERATE NON-ABORTIVE ERROR MESSAGES OF PEDMSIR (EPU080)
//*
//STEP18A EXEC EPED110,
//        INTRTRN=EPINTRS
//*
//*   EDIT ETS/PS MASTER FILE TRANSACTIONS
//*
//SORT.INPUT DD *
061960053000180001                     12                                    01A
0619600530001800010166101                                                    13D
0619600530001800010111101                                                    13A
0619600530001800010122202                                                    13C
061960053000180001014030010100  71101                                        23D
061960053000180001014030010100F 22104         A                              23A
061960053000180001014030010100F 33101         A                              23C
0619600530001800660103001LSTART COMMENT                                      30A
0619600530001800660103002LCONTINUE MONTIORING THIS PLANT UNTIL FURTHER NOTICE30A
0619600530001800660103003LCITE PLANT FOR VIOLATIONS OCCURRING AFTER 03/06/80 30A
0619600530001800660103004LEND COMMENT                                        30A
0619600530001800660104001LSTART COMMENT                                      30A
0619600530001800660104002LTHIS IS A TEST COMMENT.....PAGE-BREAK OCCURS DUE TO30A
0619600530001800660104002R CHANGE IN SEQUENCE NUMBER                         30A
0619600530001800660104003LEND COMMENT                                        30A
061960053000180001054221220600                              F                21A
061960053000180001054221220600                                               21A
061960053000180001054221220600                                               22A
061960053000180001054221220600F311101                                        23A
061960053000180001054221220600  11101                                        23A
06196005300018000110   0011  100045000                                       11A
06196005300018000110                                                         12A
0619600530001800011001001LTEST COMMENT                                       30A
06196005300208000101   0012  100045000                                       11A
06196005300208000101                                                         12A
0619600530020800010111101                                                    13A
061960053004180001011020230202                              F                21A
061960053004180001024030010101                              F                21A
061960053004180001024030010101                                               22A
061960053004180001024030010101F 71101         A 72202         S              23A
061960053004180001024030010101F 11101         A                              23A
061960053004180001024040010101                              F                21A
061960053004180001024040010101                                               22A
061960053004180001024040010101F 11101         A                              23A
06196005300418000122   0022  100045000                                       11A
061960053004180001221010220301                              F                21A
061960053004180001221010220301                                               22A
061960053004180001221010220301F 11101                                        23A
```

(Remainder of transactions omitted)

```
//EDIT.OPTIONS DD *
80 FLAGR   LIST
```

Figure PST18-1. Run Stream

```
                    EIS/PS MASTER FILE TRANSACTION SORT PROGRAM  -  DIAGNOSTIC REPORT                    PAGE     1

  PROGRAM NAME: PSMMFTR (FP0070)
  REVISION LEVEL: 1-00
  LAST UPDATE #: P-1
  DATE INCORPORATED: FEBRUARY 1, 1980

 NUMBER OF INPUT TRANSACTIONS:        66
 NUMBER OF OUTPUT TRANSACTIONS:        66
```

Figure PST18-2. Sample Output (Page 1 of 6)

```
                              FIS/PS MASTER FILE TRANSACTION EDIT PROGRAM  -  DIAGNOSTIC REPORT                    PAGE     1

PROGRAM NAME: PEDMSTR (EP0080)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


OPTIONS IN EFFECT: FLAGW     NOLIST
CONTROL YEAR: 80


80 FLAGW   LOST
          *** PEDMSTR 004 CONDITIONAL - INVALID LIST OPTION, DEFAULT (NOLIST) ASSUMED


STCNTYAQCPLT#81DDD                                                           00H
REB  EB EB  FBF  E                                                           BFB
          *** PEDMSTR 005 ERROR - COLUMN 01 - INVALID STATE CODE, CARD REJECTED
          *** PEDMSTR 006 ERROR - COLUMN 03 - NON-NUMERIC COUNTY CODE, CARD REJECTED
          *** PEDMSTR 007 ERROR - COLUMN 07 - INVALID AQCR, CARD REJECTED
          *** PEDMSTR 008 ERROR - COLUMN 10 - INVALID PLANT-ID, CARD REJECTED
          *** PEDMSTR 014 ERROR - COLUMN 78 - INVALID TRANSACTION CARD NUMBER, CARD REJECTED
          *** PEDMSTR 015 ERROR - COLUMN 80 - INVALID ACTION TYPE, CARD REJECTED
          *** PEDMSTR 017 CONDITIONAL - COLUMN 14 - YEAR SPCFD  IS GREATER THAN OPTION YEAR
          *** PEDMSTR 016 ERROR - COLUMN 14 - INVALID DATE SPECIFIED, CARD REJECTED


061960053000180001054221220600                                               21A
                                                            B
          *** PEDMSTR 083 ERROR - COLUMN 62 - INVALID ASH/SULFUR ORIGIN, CARD REJECTED


061960053000180001054221220600  11101                                        23A
                              B
          *** PEDMSTR 106 ERROR - COLUMN 31 - INVALID FMF ORIGIN, CARD REJECTED


550000111222280001NON-BLANK FIELDS FOR DELETE                                01D
          *** PEDMSTR 100 ERROR - NON-KEY FIELDS NOT BLANK FOR DELETE, CARD REJECTED


550000111222280001                                                           01A
                                       BE
          *** PEDMSTR 021 CONDITIONAL - COLUMN 40 - UIM-ZONE NUMBER BLANK FOR ADD TRANSACTION


550000111222280001                 CITYUZC                 TELEPHONE#        01A
                                   B  EBFB                 B        F
          *** PEDMSTR 018 CONDITIONAL - COLUMN 36 - INVALID CITY SPECIFIED
          *** PEDMSTR 019 ERROR - COLUMN 40 - NON-NUMERIC UIM-ZONE NUMBER, CARD REJECTED
```

Figure PST18-2 - continued. Sample Output

(Page 2 of 6)

```
                              EIS/PS MASTER FILE TRANSACTION EDIT PROGRAM  -   DIAGNOSTIC REPORT               PAGE     2

          *** PEDMSTR 022 CONDITIONAL - COLUMN 42 - INVALID OWNERSHIP CODE
          *** PEDMSTR 023 ERROR - COLUMN 58 - NON-NUMERIC TELEPHONE NUMBER, CARD REJECTED


550000111222280001                    21                                      01A
                                       BE
          *** PEDMSTR 020 CONDITIONAL - COLUMN 40 - UTM-ZONE NUMBER OUT OF RANGE


550000111222280001                                                            02D
                                                                              BE
          *** PEDMSTR 092 ERROR - COLUMN 78 - INVALID CARD NUMBER FOR DELETE, CARD REJECTED


550000111222280001                                                 *EMPPRAREA 02A
                  B                                               EB  EB    E
          *** PEDMSTR 024 ERROR - COLUMN 19 - NAME/ADDRESS FIELD BLANK FOR ADD TRANSACTION, CARD REJECTED
          *** PEDMSTR 025 ERROR - COLUMN 67 - NON-NUMERIC NUMBER OF EMPLOYEES, CARD REJECTED
          *** PEDMSTR 026 CONDITIONAL - COLUMN 71 - NON-NUMERIC PROPERTY AREA


550000111222280001*                                                           02C
                  B                                               E
          *** PEDMSTR 102 ERROR - COLUMN 19 - NAME/ADDRESS FIELD CANNOT BE DELETED, CARD REJECTED


550000111222280001P#   SICCIPHORZVERTCLATIUDLUNGTDETHRUPUTTOPRTEBOILRSPH      11A
                  BE   B EBEB  EB    EB    EB     EB      EBEBBEB  EB   E
          *** PEDMSTR 009 ERROR - COLUMN 19 - INVALID POINT-ID, CARD REJECTED
          *** PEDMSTR 028 CONDITIONAL - COLUMN 24 - NON-NUMERIC SIC CODE
          *** PEDMSTR 029 ERROR - COLUMN 28 - NON-NUMERIC IPP CODE, CARD REJECTED
          *** PEDMSTR 030 ERROR - COLUMN 30 - NON-NUMERIC UTM-HORIZONTAL CODE, CARD REJECTED
          *** PEDMSTR 033 ERROR - COLUMN 34 - NON-NUMERIC UTM-VERTICAL CODE, CARD REJECTED
          *** PEDMSTR 036 ERROR - COLUMN 39 - NON-NUMERIC LATITUDE, CARD REJECTED
          *** PEDMSTR 037 ERROR - COLUMN 45 - NON-NUMERIC LONGITUDE, CARD REJECTED
          *** PEDMSTR 038 ERROR - COLUMN 52 - NON-NUMERIC ANNUAL THRUPUT PERCENTAGE, CARD REJECTED
          *** PEDMSTR 058 ERROR - COLUMN 60 - NON NUMERIC DAY FOR OPERATING RATE, CARD REJECTED
          *** PEDMSTR 109 ERROR - COLUMN 62 - NON NUMERIC WEEK FOR OPERATING RATE, CARD REJECTED
          *** PEDMSTR 111 ERROR - COLUMN 63 - NON NUMERIC YEAR FOR OPERATING RATE, CARD    REJECTED
          *** PEDMSTR 040 ERROR - COLUMN 65 - NON-NUMERIC BOILER DESIGN CAPACITY, CARD REJECTED
          *** PEDMSTR 041 ERROR - COLUMN 70 - NON-NUMERIC HEATED SPACE PERCENTAGE, CARD REJECTED


55000011122228000122   1111  280020600             1122334425853              11A
                             B    EB E             B      EBEBBE
          *** PEDMSTR 031 CONDITIONAL - COLUMN 30 - UTM-HORIZONTAL CODE OUT OF RANGE
          *** PEDMSTR 034 CONDITIONAL - COLUMN 34 - UTM-VERTICAL CODE OUT OF RANGE
          *** PEDMSTR 093 CONDITIONAL - COLUMN 52 - INVALID THRUPUT SUM
          *** PEDMSTR 039 CONDITIONAL - COLUMN 60 - INVALID DAY FOR OPERATING RATE
```

Figure PST18-2 - continued. Sample Output

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```
                              EIS/PS MASTER FILE TRANSACTION EDIT PROGRAM  -  DIAGNOSTIC REPORT                PAGE      3

          *** PEDMSTR 108 CONDITIONAL - COLUMN 62 - INVALID WEEK FOR OPERATING RATE
          *** PEDMSTR 110 CONDITIONAL - COLUMN 63 - INVALID YEAR FOR OPERATING RATE


55000011122228000122                                          11A
                       B  E  B  FB   E
          *** PEDMSTR 027 CONDITIONAL - COLUMN 24 - SIC CODE BLANK FOR ADD TRANSACTION
          *** PEDMSTR 032 CONDITIONAL - COLUMN 30 - UTM-HORIZONTAL CODE BLANK FOR ADD TRANSACTION
          *** PEDMSTR 035 CONDITIONAL - COLUMN 34 - UTM-VERTICAL CODE BLANK FOR ADD TRANSACTION


550000111222280001220501                                      12A
                    B  E
          *** PEDMSTR 094 CONDITIONAL - COLUMN 21 - STACK HEIGHT LESS THAN ZERO OR GREATER THAN 500


5500001112222800012201000212001            02010604 86018101313               12A
                        B  EB  E           B  EB  E BE  RE     B
          *** PEDMSTR 044 CONDITIONAL - COLUMN 25 - STACK DIAMETER EXCEEDS 20 PERCENT OF THE STACK HEIGHT
          *** PEDMSTR 046 CONDITIONAL - COLUMN 28 - STACK TEMPERATURE LESS THAN 77 OR GREATER THAN 2000
          *** PEDMSTR 050 CONDITIONAL - COLUMN 44 - PLUME HEIGHT IS GREATER THAN 200
          *** PEDMSTR 052 CONDITIONAL - COLUMN 48 - 1ST POINT GREATER THAN OR EQUAL TO 2ND POINT
          *** PEDMSTR 100 CONDITIONAL - NEDS POINT ID NOT WITHIN COMMON STACK POINTS
          *** PEDMSTR 055 CONDITIONAL - COLUMN 53 - YEAR OF COMPLIANCE SCHEDULE NOT WITHIN 5 YEARS
          *** PEDMSTR 057 CONDITIONAL - COLUMN 57 - YEAR OF COMPLIANCE UPDATE GREATER THAN OPTION YEAR
          *** PEDMSTR 095 CONDITIONAL - COLUMN 63 - INVALID ECAP CODE


55000011122228000122HGHTDIATEMPFLOWRTEVELOCPLUM#1#2SSCHDUPDATEEREG1REG2REG3  12A
                    B  ER  ER  ER      ER   EB  EB  EBR  ER     ER
          *** PEDMSTR 042 ERROR - COLUMN 21 - NON-NUMERIC STACK HEIGHT, CARD REJECTED
          *** PEDMSTR 043 ERROR - COLUMN 25 - NON-NUMERIC STACK DIAMETER, CARD REJECTED
          *** PEDMSTR 045 ERROR - COLUMN 28 - NON-NUMERIC STACK TEMPERATURE, CARD REJECTED
          *** PEDMSTR 047 ERROR - COLUMN 32 - NON-NUMERIC EXHAUST FLOW RATE, CARD REJECTED
          *** PEDMSTR 048 ERROR - COLUMN 39 - NON-NUMERIC VELOCITY, CARD REJECTED
          *** PEDMSTR 049 ERROR - COLUMN 44 - NON-NUMERIC PLUME HEIGHT, CARD REJECTED
          *** PEDMSTR 051 ERROR - COLUMN 48 - INVALID POINTS WITH COMMON STACK, CARD REJECTED
          *** PEDMSTR 053 CONDITIONAL - COLUMN 52 - INVALID COMPLIANCE STATUS
          *** PEDMSTR 054 ERROR - COLUMN 53 - INVALID COMPLIANCE SCHEDULE, CARD REJECTED
          *** PEDMSTR 056 ERROR - COLUMN 57 - INVALID COMPLIANCE UPDATE, CARD REJECTED
          *** PEDMSTR 082 ERROR - COLUMN 63 - INVALID ECAP, CARD REJECTED


55000011122228000122PULIDCNTRLEQPRISECEFFESTIMTEMEASURDALLOWBLUET             13A
                    B  EB      ER EB ER FB      ER      EB      ERBR
          *** PEDMSTR 059 ERROR - COLUMN 21 - NON-NUMERIC POLLUTANT ID, CARD REJECTED
          *** PEDMSTR 060 ERROR - COLUMN 26 - NON-NUMERIC CONTROL EQUIPMENT COST, CARD REJECTED
          *** PEDMSTR 061 ERROR - COLUMN 33 - INVALID PRIMARY CONTROL EQUIPMENT,  CARD REJECTED
          *** PEDMSTR 063 ERROR - COLUMN 36 - INVALID SECONDARY CONTROL EQUIPMENT,  CARD REJECTED
```

Figure PST18-2 - continued. Sample Output

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BEST DOCUMENT AVAILABLE

```
                  EIS/PS MASTER FILE TRANSACTION EDIT PROGRAM  -  DIAGNOSTIC REPORT                PAGE     4

          *** PEDMSTR 064 ERROR - COLUMN 39 - NON-NUMERIC ESTIMATED CONTROL EFFICIENCY, CARD REJECTED
          *** PEDMSTR 065 ERROR - COLUMN 42 - NON-NUMERIC EMISSIONS ESTIMATE, CARD REJECTED
          *** PEDMSTR 068 ERROR - COLUMN 49 - NON-NUMERIC MEASURED EMISSIONS, CARD REJECTED
          *** PEDMSTR 069 ERROR - COLUMN 56 - NON-NUMERIC ALLOWABLE EMISSIONS, CARD REJECTED
          *** PEDMSTR 070 WARNING - COLUMN 63 - NON-NUMERIC EMISSIONS UNITS CODE
          *** PEDMSTR 071 ERROR - COLUMN 64 - INVALID ESTIMATION METHOD, CARD REJECTED
          *** PEDMSTR 072 WARNING - COLUMN 65 - NON-NUMERIC TEST METHOD


5500001112222800012211101                   0800001                                 13A
                                            B     E
          *** PEDMSTR 066 ERROR - COLUMN 42 - EMISSIONS ESTIMATE TOO LARGE


5500001112222800012211101                111                       1                13A
                                            B     E
          *** PEDMSTR 062 ERROR - PRIMARY EQUIP AND EST CONTROL EFF NOT BOTH BLANK FOR ADD, CARD REJECTED
          *** PEDMSTR 067 ERROR - COLUMN 42 - EMISS. EST. REQUIRED FOR METHODS 2,4,5; CARD REJECTED


5500001112222800012211101                   0025001        0025001                  13A
                                            B     E        B     E
          *** PEDMSTR 101 CONDITIONAL - COLUMN 42 - ESTIMATED EMISSIONS BETWEEN 25,000 AND 800,000
          *** PEDMSTR 097 CONDITIONAL - COLUMN 56 - ALLOWABLE EMISSIONS OUT OF RANGE


55000011122228000122SCCNUMBRSGBECNOUPROCESSMAXDSGNSULASHHEATCOS                     21A
                    B       EBEB   EBB      EB      EB EB EB    EBB
          *** PEDMSTR 010 ERROR - COLUMN 21 - NON-NUMERIC SCC NUMBER, CARD REJECTED
          *** PEDMSTR 011 ERROR - COLUMN 29 - NON-NUMERIC SCC SEGMENT NUMBER, CARD REJECTED
          *** PEDMSTR 073 WARNING - COLUMN 31 - NON-NUMERIC BEC CODE
          *** PEDMSTR 074 WARNING - COLUMN 36 - NON-NUMERIC FUEL UNITS CODE
          *** PEDMSTR 075 ERROR - COLUMN 37 - NON-NUMERIC FUEL PROCESS RATE, CARD REJECTED
          *** PEDMSTR 076 ERROR - COLUMN 44 - NON-NUMERIC MAXIMUM DESIGN RATE, CARD REJECTED
          *** PEDMSTR 077 ERROR - COLUMN 51 - NON-NUMERIC SULFUR CONTENT, CARD REJECTED
          *** PEDMSTR 078 ERROR - COLUMN 54 - NON-NUMERIC ASH CONTENT, CARD REJECTED
          *** PEDMSTR 079 ERROR - COLUMN 57 - NON-NUMERIC HEAT CONTENT, CARD REJECTED
          *** PEDMSTR 083 ERROR - COLUMN 62 - INVALID ASH/SULFUR ORIGIN, CARD REJECTED
          *** PEDMSTR 105 ERROR - COLUMN 63 - INVALID ASH/SULFUR SOURCE, CARD REJECTED


55000011122228000122333333333030OSPOLL1EMISFCTR1CUPOLL2EMISFCTR2CU                  23A
                              BBB   EB       EBBB   EB       EBB
          *** PEDMSTR 106 ERROR - COLUMN 31 - INVALID EMF ORIGIN, CARD REJECTED
          *** PEDMSTR 107 ERROR - COLUMN 32 - INVALID EMF SOURCE, CARD REJECTED
          *** PEDMSTR 084 ERROR - COLUMN 33 - FIRST POLLUTANT ID IS NON-NUMERIC, CARD REJECTED
          *** PEDMSTR 085 ERROR - COLUMN 38 - FIRST EMISSION FACTOR IS NON-NUMERIC, CARD REJECTED
          *** PEDMSTR 086 CONDITIONAL - COLUMN 47 - FIRST ASH/SULFUR CODE IS INVALID
          *** PEDMSTR 087 WARNING - COLUMN 48 - FIRST EMISSION FACTOR UNITS CODE IS NON-NUMERIC
```

Figure PST18-2 - continued. Sample Output
(Page 5 of 6)

```
                         EIS/PS MASTER FILE TRANSACTION EDIT PROGRAM  -  DIAGNOSTIC REPORT                  PAGE     5

          *** PEDMSTR 088 ERROR - COLUMN 49 - SECOND POLLUTANT ID IS NON-NUMERIC, CARD REJECTED
          *** PEDMSTR 089 ERROR - COLUMN 54 - SECOND EMISSION FACTOR IS NON-NUMERIC, CARD REJECTED
          *** PEDMSTR 090 CONDITIONAL - COLUMN 63 - SECOND ASH/SULFUR CODE IS INVALID
          *** PEDMSTR 091 WARNING - COLUMN 64 - SECOND EMISSION FACTOR UNITS CODE IS NON-NUMERIC


5500001112222800012233333398024 *                                                 22A
                  R B                      F
          *** PEDMSTR 080 CONDITIONAL - COLUMN 31 - INVALID CONFIDENTIALITY, REPLACING WITH 1
          *** PEDMSTR 103 ERROR - COLUMN 33 - SOURCE DESCRIPTION FIELD CANNOT BE DELETED, CARD REJECTED


5500001112222800012233333399013                                                   22A
                  R B                      F
          *** PEDMSTR 081 ERROR - COLUMN 31 - CONFIDENTIALITY OF 3 IS NOT ALLOWED, CARD REJECTED
          *** PEDMSTR 099 CONDITIONAL - COLUMN 33 - SOURCE DESCRIPTION BLANK FOR SCC 97, 98, OR 99


5500001112222800012250LN#FCOMMENT                                                 30A
             RER EB
          *** PEDMSTR 012 ERROR - COLUMN 21 - NON-NUMERIC PNR SEQUENCE NUMBER, CARD REJECTED
          *** PEDMSTR 013 ERROR - COLUMN 23 - NON-NUMERIC PNR LINE NUMBER, CARD REJECTED
          *** PEDMSTR 096 ERROR - COLUMN 26 - INVALID COMMENT FLAG, CARD REJECTED


NUMBER OF TRANSACTIONS READ:                          66
NUMBER OF INTERNAL TRANSACTIONS WRITTEN:              48
NUMBER OF TRANSACTIONS REJECTED:                      18
NUMBER OF ABORT MESSAGES:                              0
NUMBER OF ERROR MESSAGES:                             70
NUMBER OF CONDITIONAL MESSAGES:                       33
NUMBER OF WARNING MESSAGES:                            6

PROGRAM NAME: PEDMSTR (EP0080)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
```

Figure PST18-2 - continued. Sample Output
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EIS/PS Test 19 - Ad Hoc

Generate Non-Abortive Error Messages of the Master File Maintenance Program

In this test run, the internal transaction files output from EIS/PS Tests 17 and 18 are concatenated using the cataloged procedure EPMST20 which executes PMSTCON (EP0190), the internal transaction file concatenation program. The concatenated file is used to generate non-abortive error messages of PFMMSTR (EP0120) by executing the cataloged procedure EPFMM10 which executes PSRINTR (EP0110), the master file internal transaction sort program; and PFMMSTR (EP0120), the master file maintenance program.

Two internal transaction files are input to PMSTCON (EP0190) which concatenates them and produces one internal transaction file. This program does not perform any sequencing and it does not check for duplicate transactions. The internal transaction file output from PMSTCON (EP0190) is input to PSRINTR (EP0110) which sorts the file into the sequence required by PFMMSTR (EP0120). See Test 9 for a discussion of PMSTCON (EP0190) and Test 4 for a discussion of PSRINTR (EP0110) and PFMMSTR (EP0120).

The run stream for this test run contains the JCL needed to concatenate the two internal transaction files and perform the master file maintenance. An option card is input to PFMMSTR (EP0120) to supply the options necessary for this test run. The run stream for this test run is shown in Figure PST19-1. A listing of the transactions is shown in Figure PST19-2 since they are not included directly in the run stream.

Substitutable parameters are used when executing EPMST20 to supply the names of the two internal transaction files input to PMSTCON (EP0190) and the concatenated file output from PMSTCON (EP0190). The names of these files are EPINTR4, EPINTR5, and EPINTR6, respectively.

Substitutable parameters are also used when executing EPFMM10 to supply the names of the internal transaction file input to PSRINTR (EP0110), the master file input to PFMMSTR (EP0120), and the master file output from PFMMSTR (EP0120). The names of these files are EPINTR6, EPMSTR5 (created in Test 11), and EPMSTR6, respectively.

The DD (data definition) information for the option card input to PFMMSTR (EP0120) is also supplied in the run stream. The control year and the LIST option are purposely specified incorrectly on the option card so that messages 2 and 8 will be generated. All non-abortive error messages are not generated since many of them are redundant of error messages in PCENETR (EP0060) and PEDMSTR (EP0080). Sample output produced by this test run is shown in Figure PST19-3.

```
//PSTEST19 JOB    (ACCOUNTING INFO)
//*
//*   GENERATE NON-ABORTIVE ERROR MESSAGES OF PFMMSTR (EP0120)
//*
//STEP19A EXEC EPMST20,
//        INTRN1=EPINTR4,
//        INTRN2=EPINTR5,
//        CONCAT=EPINTR6
//*
//*   CONCATENATE TWO INTERNAL TRANSACTION FILES
//*
//STEP19B EXEC EPFMM10,
//        OLDMSTR=EPMSTR5,
//        NEWMSTR=EPMSTR6,
//        INTRTRN=EPINTR6
//*
//*   GENERATE ERROR MESSAGES OF PFMMSTR (EP0120) WHILE
//*   UPDATING A MASTER FILE
//*
//UPDATE.OPTIONS DD *
YY FLAGR LOST
```

Figure PST19-1. Run Stream

```
55000011102020202010110000000000000000001215500001112222  00011                           0102                          12A
550000111020202020101100000000000000000013155000011122228R0000111110                0025001                             13A
5500001110202020201011000000000000000000131550000111222R00001142602                0800000                             13A
5500001110202020201011000000000000000000131550000111222R00001142401                0111111                             13A
5500001110202020201011000000000000000000131550000111222R00001143101                0222222                             13A
5500001110202020201011000000000000000000131550000111222R00001142101                0333333                             13A
06196005300000000100000000000000000000001100619600530001R0001                     12                                    01A
061960053000000001000110000000000000000013006196005300001R00010166101                                                   13D
061960053000000001000110000000000000000013106196005300001R00010111101                                                   13A
061960053000000001000110000000000000000013206196005300001R00010122202                                                   13C
061960053000000001000124030010100000000230061960053000 1R0001014030010100  71101                                        23D
0619600530000000010001240300101000000002310619600530001R0001014030010100F 22104         A                              23A
0619600530000000010001240300101000000002320619600530001R0001014030010100F 33101         A                              23C
0619600530000000010001300000000000000300130106196005300018R00660103001LSTART COMMENT                                     30A
0619600530000000010001300000000000003002301061960053000180R0660103002LCONTINUE MONITORING THIS PLANT UNTIL FURTHER NOTICE30A
06196005300000000100013000000000000030033010619600530001R00660103003LCITE PLANT FOR VIOLATIONS OCCURRING AFTER 03/06/80 30A
06196005300000000100013000000000000030043010619600530001R00660103004LEND COMMENT                                        30A
06196005300000000100013000000000000040013010619600530001R00660104001LSTART COMMENT                                      30A
06196005300000000100013000000000000040023010619600530001R00660104002R CHANGE IN SEQUENCE NUMBER                         30A
06196005300000000100013000000000000040023010619600530001R00660104002LTHIS IS A TEST OCMMENT.....PAGE-BREAK OCCURS DUE TO30A
06196005300000000100013000000000000040033010619600530001R00660104003LEND COMMENT                                        30A
06196005300000000100052422122060000000211061960053000 1R0001054221220600                               F               21A
0619600530000000010005242212206000000022106196005300001R0001054221220600                                               22A
0619600530000000010005242212206000000023106196005300001R0001054221220600F311101                                        23A
0619600530000000010100100000000000000000111061960053000 1R000110   0011  100045000                                       11A
06196005300000000101001000000000000000001210619600530001R000110                                                         12A
06196005300000000101003000000000000010013010619600530001R00011001001LTEST COMMENT                                       30A
0619600530000020000011000000000000000000111061960053002 0R000101   0012  100045000                                       11A
06196005300000200000110000000000000000001210619600530020R000101                                                         12A
06196005300000200000110000000000000000001310619600530020R00010111101                                                    13A
0619600530000040100012102023020200000002110619600530041R0001011020230202                               F               21A
0619600530000040100022403001010100000002110619600530041R0001024030010101                               F               21A
0619600530000040100022403001010100000002210619600530041R0001024030010101                                               22A
0619600530000040100022403001010100000002310619600530041R0001024030010101F 11101         A                              23A
0619600530000040100022403001010100000002310619600530041R0001024030010101F 71101         A 72202        S              23A
0619600530000040100022404001010100000002110619600530041R0001024040010101                               F               21A
0619600530000040100022404001010100000002210619600530041R0001024040010101                                               22A
0619600530000040100022404001010100000002310619600530041R0001024040010101F 11101         A                              23A
06196005300000401020210000000000000000001110619600530041R000122   0022  100045000                                       11A
0619600530000040102022101022030100000002110619600530041R0001221010220301                               F               21A
0619600530000040102022101022030100000002210619600530041R0001221010220301                                               22A
0619600530000040102022101022030100000002310619600530041R0001221010220301F 11101                                        23A
34004020300000003000110000000000000000001313400402030003R00010133303                                                    13A
34004020300000003000110000000000000000001313400402030003R00010122202                                                    13A
34004020300000003000110000000000000000001313400402030003R00010144404                                                    13A
44111122200000303000000000000000000000001244111122200 33R0001                                                           01C
44111122203030303000000000000000000000001144111122233 33R0001                    16                                    01A
55000011102020202000000000000000000000001155000011122 22R0001                                                           01A
55000011102020202000000000000000000000001155000011122 22R0001                    21                                    01A
55000011102020202020210000000000000000001115500001112222R000122   1111  280020600            1122334425R53             11A
55000011102020202020210000000000000000001115500001112222R000122                                                         11A
55000011102020202020210000000000000000001215500001112222R0001220501                                                     12A
55000011102020202020210000000000000000001215500001112222R00012201000212001            02010604 86016101313              12A
55000011102020202020210000000000000000001315500001112222R00012211101                0025001      0025001                13A
```

Figure PST19-2. Master File Internal Transactions

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```
                    EIS/PS INTERNAL TRANSACTION FILE CONCATENATION PROGRAM  -  DIAGNOSTIC REPORT                PAGE 1


PROGRAM NAME: PMSTCON (EP0190)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF INPUT TRANSACTIONS FROM FILE 1:         6
NUMBER OF INPUT TRANSACTIONS FROM FILE 2:        48
TOTAL NUMBER OF INPUT TRANSACTIONS:              54
NUMBER OF OUTPUT TRANSACTIONS:                   54
```

```
--------------------------------------------------------------------------------------------------------
```

```
                         EIS/PS MASTER FILE INTERNAL TRANSACTION SORT PROGRAM                PAGE 1


PROGRAM NAME: PSRINTR (EP0110)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF INPUT TRANSACTIONS:       54
NUMBER OF OUTPUT TRANSACTIONS:      54
```

Figure PST19-3. Sample Output (Page 1 of 5)

```
                               EIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSSAGES                              PAGE     1
PROGRAM NAME: PFMMSTR (EP0120)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD

YY FLAGW LOST
                                  *** PFMMSTR 002 WARNING - INVALID DATE ON OPTION CARD

YY FLAGW LOST
                                  *** PFMMSTR 008 CONDITIONAL - INVALID LIST FIELD ON OPTION CARD

   CONTROL DATE IS       , ERROR OPTION IS FLAGW  , LIST OPTION IS NOLIST



061960053000000001000000000000000000000011061960053000180001                      12                                    01A
                                  *** PFMMSTR 006 ERROR - ADD TRANSACTION, RECORD ALREADY ON MASTER FILE, CARD REJECTED

06196005300000000100011000000000000000001300619600530001800010166101                                                     13D
                                  *** PFMMSTR 030 ERROR - ATTEMPT TO DELETE POINT POLL NOT ON FILE

0619600530000000010001100000000000000000131061960053000180001011110 1                                                    13A
                                  *** PFMMSTR 012 ERROR - POINT POLLUTANT ID ALREADY ON FILE, CARD REJECTED

0619600530000000010001100000000000000000132061960053000180001012220 2                                                    13C
                                  *** PFMMSTR 014 ERROR - NO MATCHING POINT POLLUTANT ID FOR TRANSACTION, CARD REJECTED

061960053000000001000124030010100000000230061960053000180001014030010100  71101                                         23D
                                  *** PFMMSTR 031 ERROR - ATTEMPT TO DELETE SCC POLLUTANT NOT ON FILE

061960053000000001000124030010100000000231061960053000180001014030010100F 22104          A                              23A
                                  *** PFMMSTR 015 ERROR - SCC POLLUTANT ID ALREADY ON FILE, POLLUTANT REJECTED

061960053000000001000124030010100000000232061960053000180001014030010100F 33101          A                              23C
                                  *** PFMMSTR 017 ERROR - NO MATCHING SCC POLLUTANT ID FOR TRANSACTION, CARD REJECTED

061960053000000001000524221220600000000211061960053000180001054221220600                                F               21A
                                  *** PFMMSTR 025 ERROR - ATTEMPT TO ADD SCC TO NONEXISTANT POINT

061960053000000001000524221220600000000221061960053000180001054221220600                                                22A
                                  *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER
                                  *** PFMMSTR 025 ERROR - ATTEMPT TO ADD SCC TO NONEXISTANT POINT
```

Figure PST19-3 - continued. Sample Output
(Page 2 of 5)

```
                              EIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSSAGES                            PAGE    2
0619600530000000100052422122060000000231061960053000180001054221220600F311101                                        23A
                                 *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER
                                 *** PFMMSTR 025 ERROR - ATTEMPT TO ADD SCC TO NONEXISTANT POINT

06196005300000001010010000000000000000000  061960053000180001110   0011  100045000
                                 *** PFMMSTR 019 ERROR - NEW MASTER RECORD INCOMPLETE, NOT WRITTEN

06196005300000001010030000000000010013010619600530001800011001001LTEST COMMENT                                       30A
                                 *** PFMMSTR 024 ERROR - ATTEMPT TO ADD COMMENT TO NONEXISTANT POINT

061960053000002000001100000000000000011106196005300208000101       0012  100045000                                   11A
                                 *** PFMMSTR 026 ERROR - ATTEMPT TO ADD POINT TO NONEXISTANT PLANT

061960053000002000001100000000000000012106196005300208000101                                                         12A
                                 *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER
                                 *** PFMMSTR 026 ERROR - ATTEMPT TO ADD POINT TO NONEXISTANT PLANT

06196005300000200000110000000000000001310619600530020800010111101                                                    13A
                                 *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER
                                 *** PFMMSTR 026 ERROR - ATTEMPT TO ADD POINT TO NONEXISTANT PLANT

0619600530000040100012102023020200000211061960053004180001011020230202                               F               21A
                                 *** PFMMSTR 006 ERROR - ADD TRANSACTION, RECORD ALREADY ON MASTER FILE, CARD REJECTED

0619600530000040100022403001010100000211061960053004180001024030010101                               F               21A
                                 *** PFMMSTR 006 ERROR - ADD TRANSACTION, RECORD ALREADY ON MASTER FILE, CARD REJECTED

0619600530000040100022403001010100000221061960053004180001024030010101                                               22A
                                 *** PFMMSTR 006 ERROR - ADD TRANSACTION, RECORD ALREADY ON MASTER FILE, CARD REJECTED

0619600530000040100022403001010100000231061960053004180001024030010101F 71101         A 72202         S              23A
                                 *** PFMMSTR 016 ERROR - ATTEMPT TO ADD MORE THAN MAX NUMBER OF SCC POLLUTANTS
                                 *** PFMMSTR 016 ERROR - ATTEMPT TO ADD MORE THAN MAX NUMBER OF SCC POLLUTANTS

0619600530000040100022403001010100000231061960053004180001024030010101F 11101         A                              23A
                                 *** PFMMSTR 015 ERROR - SCC POLLUTANT ID ALREADY ON FILE, POLLUTANT REJECTED

0619600530000040100022404001010100000211061960053004180001024040010101                               F               21A
                                 *** PFMMSTR 033 ERROR - MORE THAN MAXIMUM NUMBER OF SCC FOR POINT

0619600530000040100022404001010100000221061960053004180001024040010101                                               22A
                                 *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER

0619600530000040100022404001010100000231061960053004180001024040010101F 11101         A                              23A
                                 *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER

0619600530000040100021000000000000000346  0619600530041801481020111141212454095557121210515152020303011054700137097009001001000001
```

Figure PST19-3 - continued. Sample Output

(Page 3 of 5)

```
                               FIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSAGES                                      PAGE      3
                                   *** PFMMSTR 004 ERROR - FIELDS MISSING FOR EMISSIONS CALCULATIONS, 0 USED FOR ESTIMATE

061960053000004010002100000000000000000346  0619600530041801481020111141212458095557121210515152020303011054700137097009001001000
                                   *** PFMMSTR 004 ERROR - FIELDS MISSING FOR EMISSIONS CALCULATIONS, 0 USED FOR ESTIMATE

061960053000004010202100000000000000000000  061960053004180001122   0022  100845000
                                   *** PFMMSTR 019 ERROR - NEW MASTER RECORD INCOMPLETE, NOT WRITTEN

061960053000004010202210102203010000000000  0619600530041800012221010220301
                                   *** PFMMSTR 020 ERROR - POINT INCOMPLETE, SCC NOT WRITTEN TO OUTPUT MASTER  FILE

3400402030000000030001100000000000000001313400402030003800010184408                                                       13A
                                   *** PFMMSTR 013 ERROR - ATTEMPT TO ADD MORE THAN MAXIMUM NUMBER OF POINT POLLUTANTS

4411112220000030300000000000000000000000124411112220033800001                                                             01C
                                   *** PFMMSTR 007 ERROR - TRANSACTION NOT ADD, BUT NO MASTER ON FILE, CARD REJECTED

441111222030303030000000000000000000000000  441111222333180000101          16
                                   *** PFMMSTR 019 ERROR - NEW MASTER RECORD INCOMPLETE, NOT WRITTEN

55000011102020202000000000000000000000000115500001112222800001                      21                                    01A
                                   *** PFMMSTR 034 ERROR - DUPLICATE TRANSACTION - CARD REJECTED   ,

550000111020202020000000000000000000000000  5500001112227280000101
                                   *** PFMMSTR 019 ERROR - NEW MASTER RECORD INCOMPLETE, NOT WRITTEN

550000111020202020101100000000000000001215500001112222  00011                                 0102                        12A
                                   *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER
                                   *** PFMMSTR 026 ERROR - ATTEMPT TO ADD POINT TO NONEXISTANT PLANT

55000011102020202020101100000000000000001315500001112222800001142401                  0111111                             13A
                                   *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER
                                   *** PFMMSTR 026 ERROR - ATTEMPT TO ADD POINT TO NONEXISTANT PLANT

55000011102020202020101100000000000000001315500001112222800001102602                  0800000                             13A
                                   *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER
                                   *** PFMMSTR 026 ERROR - ATTEMPT TO ADD POINT TO NONEXISTANT PLANT

55000011102020202020101100000000000000001315500001112222800001111101                  0025001                             13A
                                   *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER
                                   *** PFMMSTR 026 ERROR - ATTEMPT TO ADD POINT TO NONEXISTANT PLANT

55000011102020202020101100000000000000001315500001112222800001142101                  0333333                             13A
                                   *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER
                                   *** PFMMSTR 026 ERROR - ATTEMPT TO ADD POINT TO NONEXISTANT PLANT

55000011102020202020101100000000000000001315500001112222800001143101                  0222222                             13A
```

Figure PST19-3 - continued. Sample Output

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```
                    EIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSSAGES                    PAGE     4

                *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER
                *** PFMMSTR 026 ERROR - ATTEMPT TO ADD POINT TO NONEXISTANT PLANT

550000111020202020202100000000000000011155000011122228000122                                   11A
                *** PFMMSTR 026 ERROR - ATTEMPT TO ADD POINT TO NONEXISTANT PLANT

550000111020202020202100000000000000011155000011122228000122   1111   280020600         1122334425853    11A
                *** PFMMSTR 034 ERROR - DUPLICATE TRANSACTION - CARD REJECTED
                *** PFMMSTR 026 ERROR - ATTEMPT TO ADD POINT TO NONEXISTANT PLANT

5500001110202020202021000000000000000121550000111222280001220501                               12A
                *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER
                *** PFMMSTR 026 ERROR - ATTEMPT TO ADD POINT TO NONEXISTANT PLANT

5500001110202020202021000000000000000121550000111222280001220100021200 1    02010604 06010101313    12A
                *** PFMMSTR 034 ERROR - DUPLICATE TRANSACTION - CARD REJECTED
                *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER
                *** PFMMSTR 026 ERROR - ATTEMPT TO ADD POINT TO NONEXISTANT PLANT

550000111020202020202100000000000000013155000011122228000122111101          0025001      0025001   13A
                *** PFMMSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER
                *** PFMMSTR 026 ERROR - ATTEMPT TO ADD POINT TO NONEXISTANT PLANT
```

```
                    EIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSSAGES                    PAGE     5

   NUMBER OF INPUT TRANSACTIONS READ                       54
   NUMBER OF DISASTERS DETECTED                             0
   NUMBER OF ABORTS DETECTED                                0
   NUMBER OF ERRORS DETECTED                               59
   NUMBER OF CONDITIONALS DETECTED                          1
   NUMBER OF WARNINGS DETECTED                              1
   NUMBER OF TRANSACTIONS REJECTED                         36
   NUMBER OF POINT SOURCE FILE RECORDS READ IN            162
   NUMBER OF POINT SOURCE FILE RECORDS WRITTEN OUT        169
```

Figure PST19-3 - continued. Sample Output

(Page 5 of 5)

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EIS/PS Test 20 - Ad Hoc

Exercise All Options of the Master File Internal Transaction Emission Factor Insertion Program

In this test run, all options of PMSEFIN (EP0100) are exercised using the cataloged procedure EPMST10 which executes PSREFIN (EP0090), the master file internal transaction pre-insertion sort program; and PMSEFIN (EP0100), the master file internal transaction emission factor insertion program.

The concatenated internal transaction file created in EIS/PS Test 19 is used as input to PSREFIN (EP0090) which sorts the file into the sequence required by PMSEFIN (EP0100). Refer to Test 4 for a discussion of these programs.

The run stream for this test run contains the JCL needed to execute the insertions procedure. It also contains the option card which is input to PMSEFIN (EP0100). The run stream for this test run is shown in Figure PST20-1.

Substitutable parameters are used to supply the names of the internal transaction file input to PSREFIN (EP0090), the emission factor file input to PMSEFIN (EP0100), and the internal transaction file output from PMSEFIN (EP0100). The names of these files are EPINTR6, EPEMFC2, (created in Test 3) and EPINTR7, respectively. The DD (data definition) information for the option card input to PMSEFIN (EP0100) is also supplied.

The options specified on the option card include sulfur content (SUL), ash content (ASH), and emission factor (EMISSION). These are the fields that will be inserted or overridden. The insert (I) and override (O) options are coded on the option card immediately following each selected field. The option card also contains two control dates; an emission factor file record date and a transaction date. No insertion will be made into a field if the date of the matching emission factor file record is prior to the emission factor file record date specified on the option card. Likewise, no insertion will be made into any transaction with a date prior to the transaction date specified on the option card. An 'R' is coded in column 80 of the option card so that the date of each transaction will be replaced by the date of its associated emission factor file record. Also, the FLAGW option is specified causing all the warning messages to be printed in the diagnostic report. Sample output produced by this run stream is shown in Figure PST20-2.

```
//PSTEST20 JOB    (ACCOUNTING INFO)
//*
//*   EXERCISE ALL OPTIONS OF PHSEFIN (EPU100)
//*
// EXEC EPMST10,
//       OLDINTR=EPINTR6,
//       NEWINTR=EPINTR7,
//       EMFCFIL=EPEMFC2
//*
//*   EXECUTE AN EMISSION FACTOR INSERTION PROCEDURE
//*
//INSERT.OPTIONS DD *
FLAGW   SUL ID ASH ID EMISSION ID EDAT 78001 TDAT 79001                      H
```

Figure PST20-1. Run Stream

```
ETS/PS MASTER FILE INTERNAL TRANSACTION PRE-INSERTION SORT PROGRAM  -  DIAGNOSTIC REPORT            PAGE 1


PROGRAM NAME: PSREFIN (EP0090)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF INPUT TRANSACTIONS:       54
NUMBER OF OUTPUT TRANSACTIONS:      55
```

Figure PST20-2. Sample Output (Page 1 of 4)

```
                             MASTER FILE INTERNAL TRANSACTION EMISSION FACTOR INSERTION PROGRAM                             PAGE


PROGRAM NAME: PMSEFIN (EP0100)
REVISION LEVEL:  1-00
LAST UPDATE #:   P-1
DATE INCORPORATED:  FEBRUARY 1, 1980


OPTIONS IN EFFECT:  FLAGW

          FIELDS SELECTED FOR INSERTIONS:  SUL  ASH  EMISSION     EDAT 78001 TDAT 79001

          FIELDS TO BE OVERRIDDEN:  SUL  ASH  EMISSION


  SULFUR I  O  ASH I  O  EMISSION FACTOR I  O                                   DATE: EMISSION FACTOR 78001  TRANSACTION 79001


0619600530000040102022101022030100000211061960053004180001221010220301                               F              21A
          *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

0619600530000040102022101022030100000231061960053004180001221010220301F 11101                                       23A
          *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

0619600530000040100012102023020200000211061960053004180001011020230202                               F              21A
          *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

0619600530000000100012403001010000000231061960053000180001014030010100F 22104          A                             23A
          *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

0619600530000000100012403001010000000232061960053000180001014030010100F 33101          A                             23C
          *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

0619600530000040100022403001010100000231061960053004180001024030010101F 71101          A                             23A
          *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD
```

Figure PST20-2 - continued. Sample Output

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```
                             MASTER FILE INTERNAL TRANSACTION EMISSION FACTOR INSERTION PROGRAM                             PAGE   2

  SULFUR 1  0  ASH 1  0  EMISSION FACTOR 1  0                                  DATE: EMISSION FACTOR 78001  TRANSACTION 79001


0619600530000040100022403001010100000231061960053004180001024030010101F 72202          S                             23A
          *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

0619600530000040100022404001010100000211061960053004180001024040010101                               F               21A
          *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

0619600530000040100022404001010100000231061960053004180001024040010101F 11101          A                             23A
          *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

0619600530000000100052422122060000000211061960053000180001054221220600                               F               21A
          *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

0619600530000000100052422122060000000231061960053000180001054221220600F311101                                        23A
          *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD


PROGRAM NAME: PMSEFIN (EP0100)
REVISION LEVEL:  1-00
LAST UPDATE #:   P-1
DATE INCORPORATED:  FEBRUARY 1, 1980
```

Figure PST20-2 - continued. Sample Output (Page 3 of 4)

```
                         MASTER FILE INTERNAL TRANSACTION EMISSION FACTOR INSERTION PROGRAM                    PAGE  :


   SULFUR I  O  ASH I  O  EMISSION FACTOR I  O                        DATE: EMISSION FACTOR 78001  TRANSACTION 79001


  NUMBER OF INPUT TRANSACTIONS:                       55
  NUMBER OF EMISSION FACTOR RECORDS READ:            634
  NUMBER OF INSERTIONS MADE:                           1
  NUMBER OF OUTPUT TRANSACTIONS:                      55
  NUMBER OF 23 TRANSACTIONS CREATED:                   0
  NUMBER OF WARNING MESSAGES:                         11
  NUMBER OF CONDITIONAL MESSAGES:                      0
  NUMBER OF ERROR MESSAGES:                            0
  NUMBER OF ABORT MESSAGES:                            0
  NUMBER OF DISASTER MESSAGES:                         0
```

Figure PST20-2 - continued. Sample Output (Page 4 of 4)

EIS/PS Test 21 - Ad Hoc

Exercise Option 2 of the Master File Emissions Projection Program

In this test run, option 2 of PRPEPRJ (EP0250) is exercised using the cataloged procedure EPRPM50 which executes PRPEPRJ (EP0250), the master file emissions projection program.

The master file input to PRPEPRJ (EP0250) was created in Test 19. The control cards for option 2 of this program were created arbitrarily and are included in the run stream. See Test 12 for a discussion of PRPEPRJ (EP0250) and the control cards.

The run stream for this test run contains the JCL needed to produce an emissions projection report. The run stream for this test run is shown in Figure PST21-1.

Substitutable parameters are used to supply the names of the master file input to PRPEPRJ (EP0250) and the projection file output from PRPEPRJ (EP0250). The names of these files are EPMSTR6 and PROJFL2, respectively. The DD (data definition) information for the control cards input to PRPEPRJ (EP0250) is also supplied.

The projection file will contain all the records from the input master file; however, only records that are selected for projection will contain the calculated emissions projections. The file will also contain comment records to indicate that it was created by the emissions projection program, PRPEPRJ (EP0250).

Option 2 of PRPEPRJ (EP0250) calculates emissions projections for the SCC numbers specified on the control cards regardless of point or plant ID. A report is printed which lists the emissions projections of the criteria pollutants for each point of the input master file. Subtotals are printed for each state, county, AQCR, and plant. Cumulative totals for the entire report are printed on the final page. Sample output produced by this test run is shown in Figure PST21-2.

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```
//PSTEST21 JOB    (ACCOUNTING INFO)
//*
//*   EXERCISE OPTION 2 OF PRPFFRJ (FP0250)
//*
// EXEC FPRPM50,
//       MSTRFIL=EPMSTR6,
//       PROJFIL=PROJFL2
//*
//*   EXECUTE AN EMISSIONS PROJECTION PROCEDURE FOR SPECIFIC SCC'S
//*
//PROJCT.OPTION DD *
40300101 0005000       025       600       950                                         2
40300102 0006000       020       030       920                                         2
40300104          +100      +010      +020      -035                                   2
```

Figure PST21-1. Run Stream

```
                        EIS/PS MASTER FILE EMISSIONS PROJECTION PROGRAM  -  DIAGNOSTIC REPORT                 PAGE     1

PROGRAM NAME: PRPEPRJ (EP0250)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD          SCC OPTION USED

   SCC    THRUPUT THRU ASH  ASH SUL  SUL CDEF CDEF                                   OPTION TYPE
                  INC       INC      INC      INC
40300101 0005000       025       600      950                                           2

40300102 0006000       020       030      920                                           2

40300104         +100     +010     +020     -035                                        2

OPTION COUNT      3     VALID OPTIONS     3



ERROR MESSAGES - RECORD KEY IS   STATE  COUNTY  AQCR  PLANT  YEAR  DAY  SEGMENT TYPE   NEDS POINT ID
                                   XX  / XXXX / XXX / XXXX / XX  / XXX/      X     /          XX

0619600530001800011010111141212454095557121210515152020303011054700137097009001001000000123001500900    281107912151  44  15  17SSSS
          *** PRPEPRJ 007 CONDITIONAL - NOT ALL EMISSIONS CAN BE CALCULATED FOR THIS POINT, PRESENT EMISSION USED

0619600530001800011010111141212454095557121210515152020303011054700137097009001001000000123001500900    281107912151  44  15  17SSSS
          *** PRPEPRJ 009 CONDITIONAL - PROJECTED EMISSION FOR THIS POINT WAS ZERO, PRESENT EMISSION USED

0619600530001800011010111141212454095557121210515152020303011054700137097009001001000000123001500900    281107912151  44  15  17SSSS
          *** PRPEPRJ 009 CONDITIONAL - PROJECTED EMISSION FOR THIS POINT WAS ZERO, PRESENT EMISSION USED

0619600530001801131190111141212454095557121210515152020303011054700137097009001001000000123001510900    281107912151  44  15  17SSSS
          *** PRPEPRJ 009 CONDITIONAL - PROJECTED EMISSION FOR THIS POINT WAS ZERO, PRESENT EMISSION USED

0619600530001801131190111141212454095557121210515152020303011054700137097009001001000000123001510900    281107912151  44  15  17SSSS
          *** PRPEPRJ 009 CONDITIONAL - PROJECTED EMISSION FOR THIS POINT WAS ZERO, PRESENT EMISSION USED

0619600530004160065101011114121245409555712121051515202030301105470013709700900100100000012300152090 0    281107912151  44  15  17SSSS
          *** PRPEPRJ 007 CONDITIONAL - NOT ALL EMISSIONS CAN BE CALCULATED FOR THIS POINT, PRESENT EMISSION USED

0619600530041801481020111141212454095557121210515152020303011054700137097009001001000000123001560900    281107912151  44  15  17SSSS
          *** PRPEPRJ 007 CONDITIONAL - NOT ALL EMISSIONS CAN BE CALCULATED FOR THIS POINT, PRESENT EMISSION USED

INPUT RECORD COUNT:      169
         SEGMENT 0:       32
         SEGMENT 1:       53
         SEGMENT 2:       69
         SEGMENT 3:       15
```

Figure PST21-2. Sample Output

(Page 1 of 5)

```
                    EIS/PS MASTER FILE EMISSIONS PROJECTION PROGRAM  -  DIAGNOSTIC REPORT                  PAGE     2

OUTPUT RECORD COUNT:       159
          SEGMENT 0:        33
          SEGMENT 1:        54
          SEGMENT 2:        69
          SEGMENT 3:         3
NUMBER OF CONDITIONAL MESSAGES:          0
NUMBER OF ERROR MESSAGES:                7
NUMBER OF ABORT MESSAGES:                0

COUNT OF POLLUTANT IDS BY EST METHOD     METHOD    NUMBER OF POLLUTANT IDS

                                              0       36
                                              1        9
                                              2        6
                                              3      143
                                              4        6
                                              5        5
                                              6        0
                                              7       15
                                          OTHER       34
```

Figure PST21-2 - continued. Sample Output

(Page 2 of 5)

```
                                                                                                                PAGE     1
                                       EIS/PS MASTER FILE EMISSIONS PROJECTION REPORT

                                                       ---------------------- EMISSIONS - TONS PER YEAR --------------------
                                                       -----BASELINE MASTER FILE ------      -----PROJECTED FILE #    1------
       STATE  COUNTY  AQCR   PLANT  POINT   POLL-ID      CONTROLLED       POTENTIAL            CONTROLLED       POTENTIAL

        06    1960    053    0001    01    TSP-11101          100           6,667                  100           1,250
                                           CO -42101          100           6,667                  100           1,250
                                           SO2-42401            0               0                    0               0
                                           NOX-42602            0               0                    0               0
                                           HC -43101        1,050          11,290                1,050          11,290
        06    1960    053    0001    10    TSP-11101          100           6,667                  100           1,250
                                           CO -42101          100           6,667                  100           1,250
                                           SO2-42401            0               0                    0               0
                                           NOX-42602            0               0                    0               0
                                           HC -43101            0               0                    0               0
 TOTAL  06    1960    053    0001          TSP-11101          200          13,334                  200           2,500
                                           CO -42101          200          13,334                  200           2,500
                                           SO2-42401            0               0                    0               0
                                           NOX-42602            0               0                    0               0
                                           HC -43101        1,050          11,290                1,050          11,290
        06    1960    053    0041    01    TSP-11101            0               0                    0               0
                                           CO -42101            0               0                    0               0
                                           SO2-42401            0               0                    0               0
                                           NOX-42602            0               0                    0               0
                                           HC -43101          230          15,333                  230          15,333
        06    1960    053    0041    02    TSP-11101           51           3,400                   51           1,020
                                           CO -42101          230          15,333                    2              40
                                           SO2-42401            0               0                    0               0
                                           NOX-42602            0               0                    0               0
                                           HC -43101            0               0                    0               0
 TOTAL  06    1960    053    0041          TSP-11101           51           3,400                   51           1,020
                                           CO -42101          230          15,333                    2              40
                                           SO2-42401            0               0                    0               0
                                           NOX-42602            0               0                    0               0
                                           HC -43101          230          15,333                  230          15,333
 TOTAL  06    1960    053                  TSP-11101          251          16,734                  251           3,520
                                           CO -42101          430          28,667                  202           2,540
                                           SO2-42401            0               0                    0               0
                                           NOX-42602            0               0                    0               0
                                           HC -43101        1,280          26,623                1,280          26,623
 TOTAL  06    1960                         TSP-11101          251          16,734                  251           3,520
                                           CO -42101          430          28,667                  202           2,540
                                           SO2-42401            0               0                    0               0
                                           NOX-42602            0               0                    0               0
                                           HC -43101        1,280          26,623                1,280          26,623
        06    2004    053    AQM1    10    TSP-11101          100           6,667                  100           6,667
                                           CO -42101          100           6,667                  100           6,667
                                           SO2-42401            0               0                    0               0
                                           NOX-42602            0               0                    0               0
                                           HC -43101            0               0                    0               0
```

Figure PST21-2 - continued. Sample Output
(Page 3 of 5)

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```
                         EIS/PS MASTER FILE EMISSIONS PROJECTION REPORT                                           PAGE     2

                                                      ---------------------- EMISSIONS - TONS PER YEAR ----------------------
                                                      -----BASELINE MASTER FILE ------      -----PROJECTED FILE #     1------
        STATE  COUNTY  AQCR  PLANT  POINT  POLL-ID      CONTROLLED      POTENTIAL              CONTROLLED      POTENTIAL
         06    2004    053   AQW1   AB     TSP-11101           100          6,667                     100          6,667
                                           CO -42101           100          6,667                     100          6,667
                                           SO2-42401             0              0                       0              0
                                           NOX-42602             0              0                       0              0
                                           HC -43101             0              0                       0              0
  TOTAL  06    2004    053   AQW1          TSP-11101           200         13,334                     200         13,334
                                           CO -42101           200         13,334                     200         13,334
                                           SO2-42401             0              0                       0              0
                                           NOX-42602             0              0                       0              0
                                           HC -43101             0              0                       0              0
  TOTAL  06    2004    053                 TSP-11101           200         13,334                     200         13,334
                                           CO -42101           200         13,334                     200         13,334
                                           SO2-42401             0              0                       0              0
                                           NOX-42602             0              0                       0              0
                                           HC -43101             0              0                       0              0
  TOTAL  06    2004                        TSP-11101           200         13,334                     200         13,334
                                           CO -42101           200         13,334                     200         13,334
                                           SO2-42401             0              0                       0              0
                                           NOX-42602             0              0                       0              0
                                           HC -43101             0              0                       0              0
  TOTAL  06                                TSP-11101           451         30,068                     451         16,854
                                           CO -42101           630         42,001                     402         15,874
                                           SO2-42401             0              0                       0              0
                                           NOX-42602             0              0                       0              0
                                           HC -43101         1,280         26,623                   1,280         26,623
  TOTAL  08    0006    240   8001          TSP-11101             0              0                       0              0
                                           CO -42101             0              0                       0              0
                                           SO2-42401             0              0                       0              0
                                           NOX-42602             0              0                       0              0
                                           HC -43101             0              0                       0              0
         08    0008    240   8002   01     TSP-11101             0              0                       0              0
                                           CO -42101             0              0                       0              0
                                           SO2-42401             1              1                       1              1
                                           NOX-42602             0              0                       0              0
                                           HC -43101             0              0                       0              0
  TOTAL  08    0008    240   8002          TSP-11101             0              0                       0              0
                                           CO -42101             0              0                       0              0
                                           SO2-42401             1              1                       1              1
                                           NOX-42602             0              0                       0              0
                                           HC -43101             0              0                       0              0
         08    0008    240   8005   01     TSP-11101             0              0                       0              0
                                           CO -42101             0              0                       0              0
                                           SO2-42401             1              1                       1              1
                                           NOX-42602             0              0                       0              0
                                           HC -43101             0              0                       0              0
```

Figure PST21-2 - continued. Sample Output
(Page 4 of 5)

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```
                          EIS/PS MASTER FILE EMISSIONS PROJECTION REPORT                                PAGE   13

                                                 --------------------- EMISSIONS - TONS PER YEAR --------------------
                                                 -----BASELINE MASTER FILE ------      -----PROJECTED FILE #    1------
   STATE  COUNTY  AQCR   PLANT  POINT   POLL-ID    CONTROLLED       POTENTIAL            CONTROLLED       POTENTIAL
TOTAL
                                        TSP-11101       1,537          32,065                 1,537          18,851
                                        CO -42101         655          42,026                   427          15,899
                                        SO2-42401       1,565           1,565                 1,565           1,565
                                        NOX-42602         323             323                   323             323
                                        HC -43101       1,293          26,735                 1,293          26,735
```

Figure PST21-2 - continued. Sample Output (Page 5 of 5)

EIS/PS Test 22 - Ad Hoc

Exercise Option 3 of the Master File Emissions Projection Program

In this test run, option 3 of PRPEPRJ (EP0250) is exercised using the cataloged procedure EPRPM50 which executes PRPEPRJ (EP0250), the master file emissions projection program.

The master file input to PRPEPRJ (EP0250) was created in EIS/PS Test 19. The control cards for option 3 of this program were created arbitrarily and are included in the run stream. See EIS/PS Test 12 for a discussion of PRPEPRJ (EP0250) and the control cards.

The run stream for this test run contains the JCL needed to produce an emissions projection report. The run stream for this test run is shown in Figure PST22-1.

Substitutable parameters are used to supply the names of the master file input to PRPEPRJ (EP0250) and the projection file output from PRPEPRJ (EP0250). The names of these files are EPMSTR6 and PROJFL3, respectively. The DD (data definition) information for the control cards input to PRPEPRJ (EP0250) is also supplied.

The projection file will contain all the records from the input master file; however, only records that are selected for projection will contain the calculated emissions projections. The file will also contain comment records to indicate that it was created by the emissions projection program, PRPEPRJ (EP0250).

Option 3 of PRPEPRJ (EP0250) calculates emissions projections for the plant/point combinations specified on the control cards. A report is printed which lists the emissions projections of the criteria pollutants for each point of the input master file. Subtotals are printed for each state, county, AQCR, and plant. Cumulative totals for the entire report are printed on the final page. Sample output produced by this test run is shown in Figure PST22-2.

```
//PSTEST22 JOB    (ACCOUNTING INFO)
//*
//*   EXERCISE OPTION 3 OF PRPEPRJ (EP0250)
//*
// EXEC EPRPM50,
//      MSTRFIL=EPMSTR6,
//      PROJFIL=PROJFL3
//*
//*   EXECUTE AN EMISSIONS PROJECTION PROCEDURE FOR SPECIFIC
//*   PLANT/POINT COMBINATIONS
//*
//PROJCT.OPTION DD *
080008240800201 +050                                                           3
080008240800081 -025                                                           3
180040224000503 +200                                                           3
180040224000507  OFF                                                           3
340040203000801 +899                                                           3
```

Figure PST22-1. Run Stream

```
                EIS/PS MASTER FILE EMISSIONS PROJECTION PROGRAM  -  DIAGNOSTIC REPORT                     PAGE    1

PROGRAM NAME: PRPEPR1 (EP0250)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


OPTION CARD          FIXED OPTION USED - SELECTED PLANTS

PLANT/POINT KEY  INC/OFF                                                        OPTION TYPE
080008240800201 +050                                                                 3
080008240800081 -025                                                                 3
180040224000503 +200                                                                 3
180040224000507  OFF                                                                 3
340040203000801 +899                                                                 3

OPTION COUNT       5     VALID OPTIONS     5




INPUT RECORD COUNT:       169
         SEGMENT 0:        32
         SEGMENT 1:        53
         SEGMENT 2:        69
         SEGMENT 3:        15
OUTPUT RECORD COUNT:      160
         SEGMENT 0:        33
         SEGMENT 1:        54
         SEGMENT 2:        69
         SEGMENT 3:         4
NUMBER OF CONDITIONAL MESSAGES:         0
NUMBER OF ERROR MESSAGES:               0
NUMBER OF ABORT MESSAGES:               0


COUNT OF POLLUTANT IDS BY EST METHOD    METHOD    NUMBER OF POLLUTANT IDS

                                           0         36
                                           1          9
                                           2          6
                                           3        143
                                           4          6
                                           5          5
                                           6          0
                                           7         15
                                       OTHER         34
```

Figure PST22-2. Sample Output (Page 1 of 5)

```
                                                                                                              PAGE     1

                                    EIS/PS MASTER FILE EMISSIONS PROJECTION REPORT

                                               -------------------- EMISSIONS - TONS PER YEAR --------------------
                                               -----BASELINE MASTER FILE ------     -----PROJECTED FILE =    1------
      STATE  COUNTY  AQCR   PLANT  POINT  POLL-ID    CONTROLLED     POTENTIAL        CONTROLLED     POTENTIAL

        06    1960    053   0001    01    TSP-11101        100         6,667               100         6,667
                                          CO -42101        100         6,667               100         6,667
                                          SO2-42401          0             0                 0             0
                                          NOX-42602          0             0                 0             0
                                          HC -43101      1,050        11,290             1,050        11,290
        06    1960    053   0001    10    TSP-11101        100         6,667               100         6,667
                                          CO -42101        100         6,667               100         6,667
                                          SO2-42401          0             0                 0             0
                                          NOX-42602          0             0                 0             0
                                          HC -43101          0             0                 0             0
TOTAL   06    1960    053   0001          TSP-11101        200        13,334               200        13,334
                                          CO -42101        200        13,334               200        13,334
                                          SO2-42401          0             0                 0             0
                                          NOX-42602          0             0                 0             0
                                          HC -43101      1,050        11,290             1,050        11,290
        06    1960    053   0041    01    TSP-11101          0             0                 0             0
                                          CO -42101          0             0                 0             0
                                          SO2-42401          0             0                 0             0
                                          NOX-42602          0             0                 0             0
                                          HC -43101        230        15,333               230        15,333
        06    1960    053   0041    02    TSP-11101         51         3,400                51         3,400
                                          CO -42101        230        15,333               230        15,333
                                          SO2-42401          0             0                 0             0
                                          NOX-42602          0             0                 0             0
                                          HC -43101          0             0                 0             0
TOTAL   06    1960    053   0041          TSP-11101         51         3,400                51         3,400
                                          CO -42101        230        15,333               230        15,333
                                          SO2-42401          0             0                 0             0
                                          NOX-42602          0             0                 0             0
                                          HC -43101        230        15,333               230        15,333
TOTAL   06    1960    053                 TSP-11101        251        16,734               251        16,734
                                          CO -42101        430        28,667               430        28,667
                                          SO2-42401          0             0                 0             0
                                          NOX-42602          0             0                 0             0
                                          HC -43101      1.280        26,623             1,280        26,623
TOTAL   06    1960                        TSP-11101        251        16,734               251        16,734
                                          CO -42101        430        28,667               430        28,667
                                          SO2-42401          0             0                 0             0
                                          NOX-42602          0             0                 0             0
                                          HC -43101      1,280        26,623             1,280        26,623
        06    2004    053   A041    10    TSP-11101        100         6,667               100         6,667
                                          CO -42101        100         6,667               100         6,667
                                          SO2-42401          0             0                 0             0
                                          NOX-42602          0             0                 0             0
                                          HC -43101          0             0                 0             0
```

Figure PST22-2 - continued. Sample Output

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```
                                        EIS/PS MASTER FILE EMISSIONS PROJECTION REPORT                                  PAGE    2

                                                               --------------------- EMISSIONS - TONS PER YEAR ---------------------
         STATE  COUNTY  AQCR  PLANT  POINT   POLL-ID     -----BASELINE MASTER FILE ------    -----PROJECTED FILE #   1------
                                                          CONTROLLED       POTENTIAL           CONTROLLED       POTENTIAL
          06    2004    053   AQW1    AB    TSP-11101         100            6,667                 100            6,667
                                            CO -42101         100            6,667                 100            6,667
                                            SO2-42401           0                0                   0                0
                                            NOX-42602           0                0                   0                0
                                            HC -43101           0                0                   0                0
  TOTAL   06    2004    053   AQW1          TSP-11101         200           13,334                 200           13,334
                                            CO -42101         200           13,334                 200           13,334
                                            SO2-42401           0                0                   0                0
                                            NOX-42602           0                0                   0                0
                                            HC -43101           0                0                   0                0
  TOTAL   06    2004    053                 TSP-11101         200           13,334                 200           13,334
                                            CO -42101         200           13,334                 200           13,334
                                            SO2-42401           0                0                   0                0
                                            NOX-42602           0                0                   0                0
                                            HC -43101           0                0                   0                0
  TOTAL   06    2004                        TSP-11101         200           13,334                 200           13,334
                                            CO -42101         200           13,334                 200           13,334
                                            SO2-42401           0                0                   0                0
                                            NOX-42602           0                0                   0                0
                                            HC -43101           0                0                   0                0
  TOTAL   06                                TSP-11101         451           30,068                 451           30,068
                                            CO -42101         630           42,001                 630           42,001
                                            SO2-42401           0                0                   0                0
                                            NOX-42602           0                0                   0                0
                                            HC -43101       1,280           26,623               1,280           26,623
  TOTAL   06    0008    240   8001          TSP-11101           0                0                   0                0
                                            CO -42101           0                0                   0                0
                                            SO2-42401           0                0                   0                0
                                            NOX-42602           0                0                   0                0
                                            HC -43101           0                0                   0                0
          08    0008    240   8002    01    TSP-11101           0                0                   0                0
                                            CO -42101           0                0                   0                0
                                            SO2-42401           1                1                   2                2
                                            NOX-42602           0                0                   0                0
                                            HC -43101           0                0                   0                0
  TOTAL   08    0008    240   8002          TSP-11101           0                0                   0                0
                                            CO -42101           0                0                   0                0
                                            SO2-42401           1                1                   2                2
                                            NOX-42602           0                0                   0                0
                                            HC -43101           0                0                   0                0
          06    0008    240   8005    01    TSP-11101           0                0                   0                0
                                            CO -42101           0                0                   0                0
                                            SO2-42401           1                1                   1                1
                                            NOX-42602           0                0                   0                0
                                            HC -43101           0                0                   0                0
```

Figure PST22-2 - continued. Sample Output

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```
                                   EIS/PS MASTER FILE EMISSIONS PROJECTION REPORT                                    PAGE    12

                                                      --------------------- EMISSIONS - TONS PER YEAR --------------------
                                                      -----BASELINE MASTER FILE ------      -----PROJECTED FILE #    1------
        STATE  COUNTY  AQCR   PLANT  POINT   POLL-ID    CONTROLLED       POTENTIAL            CONTROLLED       POTENTIAL
 TOTAL   34    0040    203    0008           TSP-11101          0               0                    0               0
                                             CO -42101          0               0                    0               0
                                             SO2-42401          0               0                    0               0
                                             NOX-42602          1               1                   10              10
                                             HC -43101          0               0                    0               0
 TOTAL   34    0040    203                   TSP-11101         59             264                   59             264
                                             CO -42101          7               7                    7               7
                                             SO2-42401        190             190                  190             190
                                             NOX-42602         62              62                   71              71
                                             HC -43101          2               2                    2               2
 TOTAL   34    0040                          TSP-11101         59             264                   59             264
                                             CO -42101          7               7                    7               7
                                             SO2-42401        190             190                  190             190
                                             NOX-42602         62              62                   71              71
                                             HC -43101          2               2                    2               2
         34    0080    053    0001    01     TSP-11101          0               0                    0               0
                                             CO -42101          0               0                    0               0
                                             SO2-42401          0               0                    0               0
                                             NOX-42602          0               0                    0               0
                                             HC -43101          0               0                    0               0
 TOTAL   34    0080    053    0001           TSP-11101          0               0                    0               0
                                             CO -42101          0               0                    0               0
                                             SO2-42401          0               0                    0               0
                                             NOX-42602          0               0                    0               0
                                             HC -43101          0               0                    0               0
 TOTAL   34    0080    053                   TSP-11101          0               0                    0               0
                                             CO -42101          0               0                    0               0
                                             SO2-42401          0               0                    0               0
                                             NOX-42602          0               0                    0               0
                                             HC -43101          0               0                    0               0
 TOTAL   34    0080                          TSP-11101          0               0                    0               0
                                             CO -42101          0               0                    0               0
                                             SO2-42401          0               0                    0               0
                                             NOX-42602          0               0                    0               0
                                             HC -43101          0               0                    0               0
 TOTAL   34                                  TSP-11101         59             264                   59             264
                                             CO -42101          7               7                    7               7
                                             SO2-42401        190             190                  190             190
                                             NOX-42602         62              62                   71              71
                                             HC -43101          2               2                    2               2
```

Figure PST22-2 - continued. Sample Output
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                        EIS/PS MASTER FILE EMISSIONS PROJECTION REPORT                                        PAGE    13

                                                  --------------------- EMISSIONS - TONS PER YEAR --------------------
                                                  -----BASELINE MASTER FILE ------     -----PROJECTED FILE #    1------
      STATE  COUNTY  AQCR   PLANT  POINT   POLL-ID     CONTROLLED       POTENTIAL         CONTROLLED       POTENTIAL

TOTAL                                      TSP-11101        1,537          32,065              1,543          32,071
                                           CO -42101          655          42,026                657          42,028
                                           SO2-42401        1,565           1,565              1,620           1,620
                                           NOX-42602          323             323                342             342
                                           HC -43101        1,243          26,735              1,292          26,734
```

Figure PST22-2 - continued. Sample Output (Page 5 of 5)

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EIS/PS Test 23 - Ad Hoc

Produce a Quick Look Report and Answer File for Particulate Emissions and List the Answer File

In this test run, a quick look report and an answer file for particulate emissions is produced using the cataloged procedure EPRPM60 which executes PRTQLED (EP0260), the quick look edit program; PRTQLEX (EP0270), the quick look extract program; and PRPQUIK (EP0280), the quick look report program. The answer file output from PRTQLEX (EP0270) is printed in a detailed report using the cataloged procedure EPRPM20 which executes PRPMSTR (EP0210), the master file detailed report program.

The output produced by the quick look package is dependent upon the user-supplied control cards input to PRTQLED (EP0260). Each set of cards must begin with a $$SELECT card and end with a $$END card. The $$SELECT card signals the beginning of a quick look retrieval and can contain a report heading for the quick look report or the turnaround document. The $$END card signals the end of a quick look retrieval.

Between the $$SELECT card and the $$END card, the following cards are entered in order: from one to twenty 10 cards, a 20 card, a 30 card (optional), a 40 card (optional, unless QL is specified on the 20 card), a 41 card (optional if a 40 card is entered, not allowed otherwise), and a 42 card (optional if a 40 and a 41 card are entered, not allowed otherwise). The 10 card(s) specifies which records are to be selected from the EIS/PS master file for processing. The 20 card specifies the desired report type and/or output answer file. The 30 card specifies the order of the quick look report or turnaround document and can be used to specify page break/subtotalling for specific data elements. The 40, 41, and 42 cards specify the data fields to be included in the quick look report, the suppression of detail lines, and the totalling for specific data elements. A quick look report is generated for each card. The control card formats are shown in Figure PST23-1. A description of each field on the cards is provided in Figure PST23-2. The quick look load sheets are provided in Figure PST23-3. The valid quick look data element abbreviations is shown in Figure PST23-4.

See EIS/PS Test 9 for a discussion of PRPMSTR (EP0210).

The run stream for this test run contains the JCL needed to produce a quick look report and answer file, and a listing of the answer file. The quick look report contains data from all records which passed the selection criteria. The answer file contains all of these records plus the records to which they are subordinate. Therefore, the answer file may be used exactly like a master file; however, the user should note that it is only a subset of the master file.

The answer file is not automatically listed by the quick look package. Hence, the master file detailed report program, PRPMSTR (EP0210), is executed for this purpose. The run stream for this test run is shown in Figure PST23-5.

Substitutable parameters are used when executing the procedure EPRPM60 to supply the names of the master file input to PRTQLEX (EP0270) and the answer file output from PRTQLEX (EP0270). The names of these files are EPMSTR6 and EPANSRA, respectively. A substitutable parameter is also used when executing the cataloged procedure EPRPM20 to supply EPANSRA as the name of the master file input to PRPMSTR (EP0210). The DD (data definition) information for the quick look control cards input to PRTQLED (EP0260) is also supplied. Sample output produced by this run stream is shown in Figure PST23-6.

$$SELECT Card

Columns	Format	Symbol	Description
1 - 8	X - X	Alphanumeric	'$$SELECT'
9			Unused
10 - 72	X - X	Alphanumeric	Report Title
73 - 80			Unused

10 Card (Selection Criteria)

Columns	Format	Symbol	Description
1 - 2	XX	Numeric	'10'
3			Unused
4	X	Special Character	Left Parenthesis
5			Unused
6 - 9	XXXX	Alphanumeric	Data Abbreviation
10			Unused
11	X	Special Character	Relational Operator
12			Unused
13 - 24	X - X	Alphanumeric	Test Value
25			Unused
26	X	Special Character	Right Parenthesis
27			Unused
28 - 30	XXX	Special Characters	Boolean Operator
31 - 80			Unused

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Figure PST23-1. Format of Quick Look Retrieval Specification Cards

20 Card (Output Specifications)

Columns	Format	Symbol	Description
1 - 2	XX	Numeric	'20'
3			Unused
4 - 5	XX	Special Characters	Report Code
6			Unused
7 - 8	XX	Special Characters	Report Code
9 - 80			Unused

30 Card (Report Order, Page Break/Subtotalling Specifications)

Columns	Format	Symbol	Description
1 - 2	XX	Numeric	'30'
3			Unused
4 - 7	XXXX	Alphanumeric	Data Abbreviation
8	X	Special Character	Page Break/ Subtotalling Request
9			Unused
10 - 13	XXXX	Alphanumeric	Data Abbreviation
14	X	Special Character	Page Break/ Subtotalling Request
15			Unused
16 - 19	XXXX	Alphanumeric	Data Abbreviation

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Figure PST23-1 - continued. Format of Quick Look Retrieval Specification Cards

30 Card - continued

Columns	Format	Symbol	Description
20	X	Special Character	Page Break/ Subtotalling Request
21			Unused
22 - 25	XXXX	Alphanumeric	Data Abbreviation
26	X	Special Character	Page Break/ Subtotalling Request
27			Unused
28 - 31	XXXX	Alphanumeric	Data Abbreviation
32	X	Special Character	Page Break/ Subtotalling Request
33			Unused
34 - 37	XXXX	Alphanumeric	Data Abbreviation
38	X	Special Character	Page Break/ Subtotalling Request
39 - 80			Unused

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Figure PST23-1 - continued. Format of Quick Look Retrieval Specification Cards

40, 41, 42 Cards (Quick Look Report Formats for One, Two, or Three Reports)

Columns	Format	Symbol	Description
1 - 2	XX	Numeric	'40', '41', or '42'
3			Unused
4	X	Special Character	Suppression Request
5			Unused
6 - 9	XXXX	Alphanumeric	Data Abbreviation
10	X	Special Character	Totalling Request
11			Unused
12 - 15	XXXX	Alphanumeric	Data Abbreviation
16	X	Special Character	Totalling Request
17			Unused
18 - 21	XXXX	Alphanumeric	Data Abbreviation
22	X	Special Character	Totalling Request
23			Unused
24 - 27	XXXX	Alphanumeric	Data Abbreviation
28	X	Special Character	Totalling Request
29			Unused
30 - 33	XXXX	Alphanumeric	Data Abbreviation
34	X	Special Character	Totalling Request
35			Unused
36 - 39	XXXX	Alphanumeric	Data Abbreviation

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Figure PST23-1 - continued. Format of Quick Look Retrieval Specification Cards

40, 41, 42 Cards - continued

Columns	Format	Symbol	Description
40	X	Special Character	Totalling Request
41			Unused
42 - 45	XXXX	Alphanumeric	Data Abbreviation
46	X	Special Character	Totalling Request
47			Unused
48 - 51	XXXX	Alphanumeric	Data Abbreviation
52	X	Special Character	Totalling Request
53			Unused
54 - 57	XXXX	Alphanumeric	Data Abbreviation
58	X	Special Character	Totalling Request
59			Unused
60 - 63	XXXX	Alphanumeric	Data Abbreviation
64	X	Special Character	Totalling Request
65 - 80			Unused

$$END Card

Columns	Format	Symbol	Description
1 - 5	XXXXX	Special Characters	'$$END'
6 - 80			Unused

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Figure PST23-1 - continued. Format of Quick Look Retrieval Specification Cards

$$SELECT Card: This card is required and signals the beginning of the quick look specification cards.

1. '$$SELECT': Required.

2. Report Title: Enter a title to appear on the quick look report or reports (see 40, 41 and 42 cards) or on the turnaround document. The title will also appear on the diagnostic report produced by the quick look edit program. The title should be chosen carefully because it is the only means of identifying a report which has been separated from the run stream. A date may be included in the title to date the reports.

10 Card: One 10 card is required, up to twenty 10 cards are allowed to specify the selection criteria.

1. '10': Required.

2. Left Parenthesis: Enter '(' if this 10 card is the first of a number of 10 cards to be grouped together.

3. Data Abbreviation: Enter one of the valid abbreviations for data fields on the master file. The valid abbreviations are shown in Figure 6.5.2-d. The data field specified by the data abbreviation will be compared to the test value to determine which records from the master file are to be selected for processing.

4. Relational Operator: Enter one of the following codes: 'E' for equal, 'U' for unequal, 'G' for greater than, 'L' for less than, 'P' for present (non-blank), or 'B' for blank.

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Figure PST23-2. Description of Quick Look Retrieval Specification Fields

5. Test Value: This field is left blank if the relational operator is P or B. Otherwise enter a value (beginning in column 13) to which the field specified by the data abbreviation will be compared. The length of the test value should equal the length (on the master file) of the data field being compared. If the data field is over 12 characters in length, the twelve characters in the test value field are compared to the first 12 characters of the field on the master file. Numeric test values must be expressed as they appear on the master file: zero-filled and with no decimal. For example, for control equipment cost, a test value of $2500.00 would be entered as 0250000.

6. Right Parenthesis: Enter ')' if this 10 card is the last of a number of 10 cards to be grouped together.

7. Boolean operator: Enter 'AND' or 'OR ' if the relational expression on this 10 card is to be combined with the relational expression on the next 10 card by the 'AND' or 'OR' boolean operator. This field must be blank on the last 10 card. If this field is blank on any but the last 10 card, it is assumed to have a value of 'AND'.

20 Card: This card is required to specify the outputs desired.

1. '20': Required.

2. Report Code: Enter one of the following codes to specify the desired output: 'QL' for quick look report, 'TA' for turnaround document, 'AF' for answer file. Only one of 'QL' and 'TA' may be specified in a given execution of the quick look programs, but 'AF' may be specified in

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Figure PST23-2 - continued. Description of Quick Look Retrieval Specification Fields

conjunction with either of the other two codes. The codes may be entered in any order on the 20 card.

30 Card: This card is optional. It specifies the order of the quick look report or turnaround document and includes page break/subtotalling requests for the quick look report.

1. '30': Required.

2. Data Abbreviation: Enter one of the valid abbreviations for data fields on the master file. The valid abbreviations are shown in Figure 6.5.2-d. Enter abbreviations from left to right on the 30 card in the order of their priority in the sort order of the reports. The report order specified will determine the order of data in the quick look report or the turnaround document, but will not affect the order of the answer file. (The answer file will have the same order as the input master file.) The sorts are always in ascending order with the specified data fields.

3. Page Break/Subtotalling Request: Each page break/subtotalling request is associated with the data abbreviation immediately preceding it on the 30 card. Enter 'X' to request a page break in the quick look report when the data field represented by the associated data abbreviation changes in value. If totals are requested on the 40, 41, or 42 card for any data field in the quick look report, a subtotal for the field(s) will be printed before the page break in the quick look report(s). A page break/subtotalling request on the 30 card and a totalling request on the 40, 41, or 42 card cannot be entered for the same data element. The page

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Figure PST23-2 - continued. Description of Quick Look Retrieval Specification Fields

break/subtotalling request does not affect the turnaround document or the answer file.

40, 41, 42 Cards: These cards are optional. They are entered when QL is specified on the 20 card. They specify the content of quick look reports. They may also specify totalling of certain fields and suppression of all but the total lines. Each card generates a quick look report.

1. '40', '41', or '42': Required. The following combinations are allowed: A 40 card, a 40 card followed by a 41 card, a 40 card followed by a 41 card followed by a 42 card. The 41 and 42 cards specify additional report formats from the same quick look retrieval run.

2. Suppression Request: Enter 'X' to suppress the printing of detailed lines in the quick look report (only headings, subtotals, and totals would be printed). If suppression is requested, totalling of at least one data field must be requested on the same 40, 41, or 42 card and page break/subtotalling must be requested for at least one data field on the 30 card. Also, each data field for which page break/subtotalling is requested on the 30 card must be listed on the 40, 41, or 42 card. These fields must appear in the same order on the 40, 41, or 42 card as they appear on the 30 card.

3. Data Abbreviation. Enter one of the valid abbreviations for data fields on the master file. The valid abbreviations and data element lengths are shown in Figure 6.5.2-d. The total of the lengths of the elements on any 40, 41, or 42 card cannot exceed 132 characters. To determine the total lengths, sum the lengths for the data elements found in Figure 6.5.2-d

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Figure PST23-2 - continued. Description of Quick Look Retrieval Specification Fields

under the column "Data Element Length In Quick Look Report" or, if the data element is totalled, "Data Element Length In Quick Look Report If Totalled." If the total exceeds 132, delete some of the fields or break the report into two quick look reports. Enter abbreviations left to right on the 40, 41, or 42 card in the order that the data fields are to appear in the quick look report. If a 30 card is entered that specifies page break/subtotalling when certain data fields change in value, the fields for which page break/subtotalling is requested must be entered on the 40, 41, or 42 card in the same order that they appear on the 30 card.

4. Totalling Request. Each totalling request is associated with the data abbreviations immediately preceding it on the 40, 41, or 42 card. Enter 'X' to request the totalling of the associated data field. A totalling request is allowed for those data elements having an entry under "Data Element Length In Quick Look Report If Totalled" in Figure 6.5.2-d. If page break/subtotalling requests are entered on the 30 card, subtotals will be computed before each page break. A totalling request on the 40, 41, or 42 card and a page break/subtotalling request on the 30 card cannot be entered for the same data element. When a totalling request is entered on a 40, 41, or 42 card for a data element, NO data element from a subordinate master file segment should be entered on that 40, 41, or 42 card.

$$END Card: This card is required and signals the end of the quick look retrieval specifications.

1. '$$END': Required.

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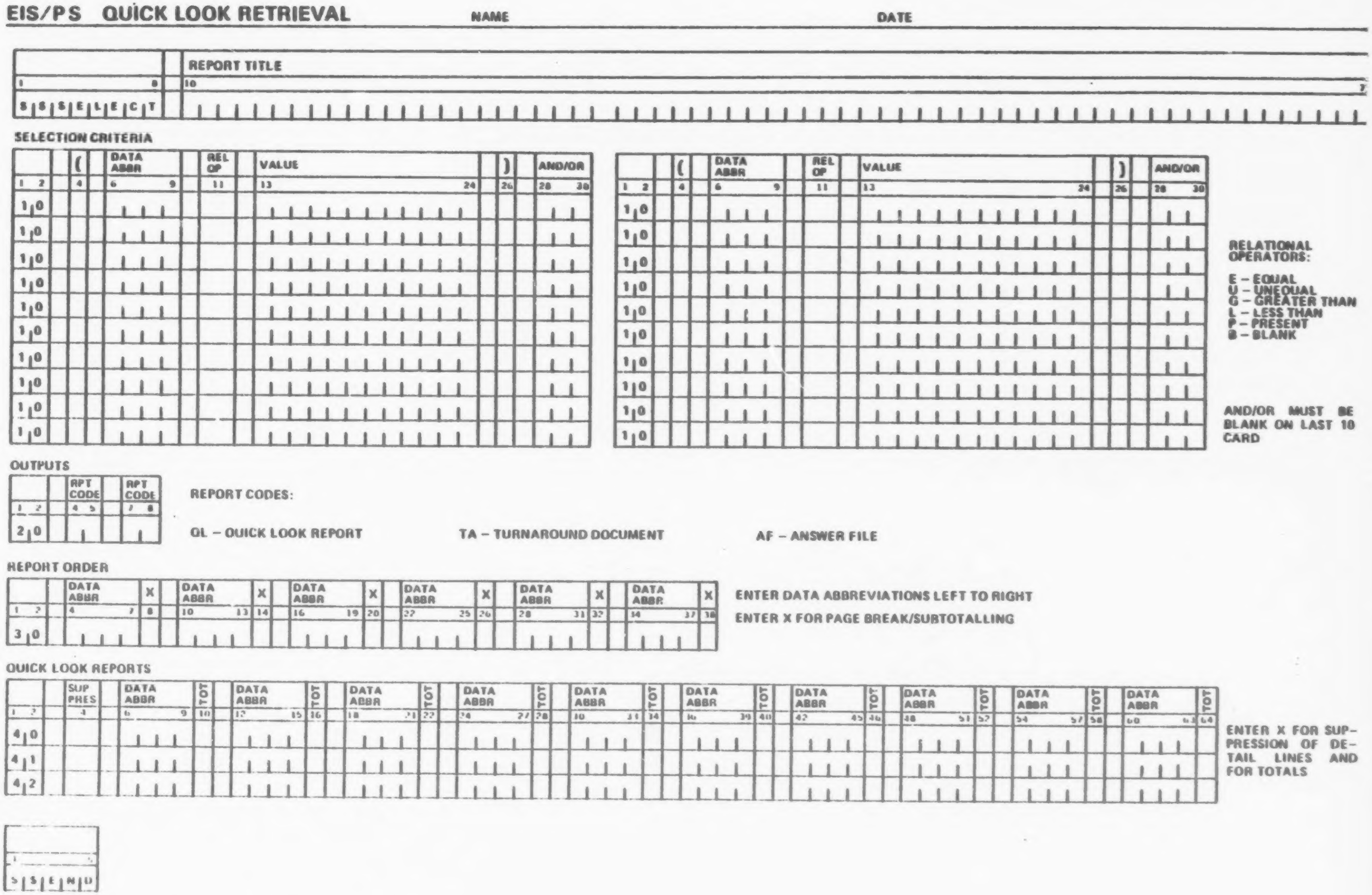
Figure PST23-2 - continued. Description of Quick Look Retrieval Specification Fields



EIS/PS QUICK LOOK RETRIEVAL NAME DATE

1 8		REPORT TITLE 10
S S S E L E C T		

SELECTION CRITERIA

1 2		(4		DATA ABBR 6 9		REL OP 11		VALUE 13 24		) 26		AND/OR 28 30
1 0												
1 0												
1 0												
1 0												
1 0												
1 0												
1 0												
1 0												
1 0												
1 0												

1 2		(4		DATA ABBR 6 9		REL OP 11		VALUE 13 24		) 26		AND/OR 28 30
1 0												
1 0												
1 0												
1 0												
1 0												
1 0												
1 0												
1 0												
1 0												
1 0												

RELATIONAL OPERATORS:

E – EQUAL
U – UNEQUAL
G – GREATER THAN
L – LESS THAN
P – PRESENT
B – BLANK

AND/OR MUST BE BLANK ON LAST 10 CARD

OUTPUTS

1 2		RPT CODE 4 5		RPT CODE 7 8
2 0				

REPORT CODES:

QL – QUICK LOOK REPORT

TA – TURNAROUND DOCUMENT

AF – ANSWER FILE

REPORT ORDER

1 2		DATA ABBR 4 7	X 8		DATA ABBR 10 13	X 14		DATA ABBR 16 19	X 20		DATA ABBR 22 25	X 26		DATA ABBR 28 31	X 32		DATA ABBR 34 37	X 38
3 0																		

ENTER DATA ABBREVIATIONS LEFT TO RIGHT

ENTER X FOR PAGE BREAK/SUBTOTALLING

QUICK LOOK REPORTS

1 2		SUP PRES 4		DATA ABBR 6 9	TOT 10		DATA ABBR 12 15	TOT 16		DATA ABBR 18 21	TOT 22		DATA ABBR 24 27	TOT 28		DATA ABBR 30 33	TOT 34		DATA ABBR 36 39	TOT 40		DATA ABBR 42 45	TOT 46		DATA ABBR 48 51	TOT 52		DATA ABBR 54 57	TOT 58		DATA ABBR 60 63	TOT 64
4 0																																
4 1																																
4 2																																

ENTER X FOR SUPPRESSION OF DETAIL LINES AND FOR TOTALS

1 5
S S E N D

Figure PST23-3. Quick Look Retrieval Load Sheets (Page 1 of 2)

EIS/PS QUICK LOOK RETRIEVAL

PAGE 2

DATA ELEMENT	ABBRE-VIATION	POSITION IN MASTER FILE	DATA ELEMENT LENGTH		
			IN MASTER FILE	IN QUICK LOOK REPORT	** IN QUICK LOOK REPORT IF TOTALLED
DATA ELEMENTS COMMON TO ALL SEGMENTS					
AQCR	AQCR	50	3	5	
County	CNTY	46	4	5	
Plant	PLNT	53	4	5	
Segment Date	DATE	57	5	6	
Segment Day	DAYY	59	3	5	
Segment ID	SEGM	57	2	5	
Segment Year	YEAR	62	1	5	
State	STTE	44	2	5	
DATA ELEMENTS COMMON TO POINT, SCC, and COMMENT SEGMENTS					
NEDS Point ID	NPID	63	2	5	
PLANT SEGMENT DATA ELEMENTS					
AQCR	0AQC	50	3	5	
City	CITY	82	4	5	
Contact	CONT	89	15	16	
County	0CNT	46	4	5	
Local Control	LCON	63	2	5	
Mailing Address	MAIL	182	48	49	
Name and Address	NAAD	124	48	49	
No. of Employees	NUME	172	4	5	9
Ownership	OWNS	88	1	5	
Plant ID	0PLN	53	4	5	
Principal Product	PROD	114	10	11	
Property Area	PROP	176	6	8	13
Segment Date	0DTE	57	5	6	
Segment Day	0DAY	59	3	5	
Segment ID	0SEG	62	1	5	
Segment Year	0YER	57	2	5	
State	0STT	44	2	5	
Telephone	TELE	104	10	11	
User Control Region	UCON	65	3	5	
User Plant ID	UPLT	70	12	13	
UTM Zone	UTMZ	86	2	5	
POINT SEGMENT DATA ELEMENTS					
AQCR	1AQC	50	3	5	
Boiler Design Capacity	BOIL	109	5	11	11
Control Regulations	CREG	160	12	13	
Control Regulation 1	REG1	160	4	5	
Control Regulation 2	REG2	164	4	5	
Control Regulation 3	REG3	168	4	5	
Compliance Schedule	CSCH	149	4	5	
Comp. Schedule Year	SCHY	149	2	5	
Comp. Schedule Month	SCHM	151	2	5	
Compliance Status	CSTT	148	1	5	
Compliance Update	CUPD	153	6	7	
Comp. Update Day	CUDY	157	2	5	
Comp. Update Month	CUMN	155	2	5	
Comp. Update Year	CUYR	153	2	5	
County	1CNT	46	4	5	
ECAP	ECAP	159	1	5	
Exhaust Flow Rate	FLOW	128	7	8	
IPP Code	IPPC	72	2	5	
Latitude	LATT	83	6	7	
Latitude Degree	LATD	83	2	5	
Latitude Minute	LATM	85	2	5	
Latitude Second	LATS	87	2	5	
Longitude	LONG	89	7	8	
Longitude Degree	LOND	89	3	5	
Longitude Minute	LONM	92	2	5	
Longitude Second	LONS	94	2	5	
NEDS Point ID/SEGMENT	S1ID	63	2	5	
Normal Operating Rate	NORM	104	5	6	
Number of Pollutants	NUMP	239	2	5	
Plant ID	1PLN	53	4	5	
Plume Height	PLUM	140	4	5	
Point IDs	PTID	63	5	6	
Points w/ Common Stack	PWCS	144	4	5	
Segment Date	1DTE	57	5	6	
Segment Day	1DAY	59	3	5	
Segment ID	1SEG	62	1	5	
Segment Year	1YER	57	2	5	
SIC Code	SICC	68	4	5	
Space Heat %	SPAC	114	3	5	
Stack Data	STAD	117	27	28	
Stack Diameter	DIAM	121	3	5	
Stack Height	HGHT	117	4	5	
Stack Temperature	TEMP	124	4	5	

0 denotes zero

DATA ELEMENT	ABBRE-VIATION	POSITION IN MASTER FILE	DATA ELEMENT LENGTH		
			IN MASTER FILE	IN QUICK LOOK REPORT	** IN QUICK LOOK REPORT IF TOTALLED
POINT SEGMENT DATA ELEMENTS (continued)					
State	ISTT	44	2	5	
Throughput	THRU	96	8	9	
Throughput/Dec-Feb	WNTR	96	2	5	
Throughput/Jun-Aug	SUMM	100	2	5	
Throughput/Mar-May	SPNG	98	2	5	
Throughput/Sep-Nov	FALL	102	2	5	
User Point ID	UPID	65	3	5	
UTM Coordinates	UTMC	74	9	10	
UTM Horizontal	HORZ	74	4	6	
UTM Vertical	VERT	78	5	7	
Velocity	VELO	135	5	6	
Repeating Point Segment Data Elements (POLL must be specified)					
Control Equipment	CEQP	253	6	7	
Control Equip. Cost	CCST	246	7	9	14
Emission Units	EUNT	290	1	5	
Emissions Allowable	ALLO	276	7	8	13
Emissions Estimate	ESTI	262	7	8	13
Emissions Measured	MEAS	269	7	8	13
Est Control Efficiency	ECEF	259	3	5	
Estimation Method	ESTM	291	1	5	
Pollutant ID	POLL*	241	5	6	
Primary Control Equip	PCTL	253	3	5	
Secondary Control Equip	SCTL	256	3	5	
Test Method	TSTM	292	1	5	
SCC SEGMENT DATA ELEMENTS					
AQCR	2AQC	50	3	5	
Ash Content	ASHC	98	3	5	
BEC Code	BECC	75	5	6	
BEC ID	BECI	78	2	5	
BEC Number	BECN	75	3	5	
Confidentiality	CONF	106	1	5	
County	2CNT	46	4	5	
Emission Factor Source	EMFS	133	1	5	
Fuel Process Rate	FPRT	81	7	8	13
Fuel Units	FUNT	80	1	5	
Heat Content	HEAT	101	5	6	
Maximum Design Rate	MDRT	88	7	9	14
NEDS Point ID/Segment 2	S2ID	63	2	5	
No. of Emission Factors	NEMF	197	2	5	
Plant ID	2PLN	53	4	5	
Source Class. Code	SCCC	65	8	9	
SCC 1	SCC1	65	1	5	
SCC 2	SCC2	66	2	5	
SCC 3	SCC3	68	3	5	
SCC 4	SCC4	71	2	5	
SCC Sequence Number	SSQN	73	2	5	
Segment Date	2DTE	57	5	6	
Segment Day	2DAY	59	3	5	
Segment ID	2SEG	62	1	5	
Segment Year	2YER	57	2	5	
Source Code	SRCC	107	1	5	
Source Description	SRCD	108	25	26	
State	2STT	44	2	5	
Sulfur Content	SULC	95	3	5	
REPEATING SCC SEGMENT DATA ELEMENTS (MPID must be specified)					
Ash/Sulfur Code	ASSC	214	1	5	
Emission Factor	EMFA	204	9	11	
Emission Factor Units	EMFU	215	1	5	
Pollutant ID	MPID*	199	5	6	
COMMENT SEGMENT DATA ELEMENTS					
AQCR	3AQC	50	3	5	
Comments	COMM	71	102	99	
County	3CNT	46	4	5	
Left Comment	LCMT	71	51	52	
Line Number	LINE	67	3	5	
NEDS Point ID/Segment 3	S3ID	63	2	5	
Plant ID	3PLN	53	4	5	
PNR Sequence Number	SEQN	65	2	5	
Right Comment	RCMT	122	51	52	
Segment Date	3DTE	57	5	6	
Segment Day	3DAY	59	3	5	
Segment ID	3SEG	62	1	5	
Segment Year	3YER	57	2	5	

* Relational Operator Must Be E

** Only fields having an entry in this column are eligible for totalling.

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Figure PST23-3 - continued. Quick Look Retrieval Load Sheets

DATA ELEMENTS COMMON TO ALL SEGMENTS					
			DATA ELEMENT LENGTH		
DATA ELEMENT	ABBRE-VIATION	POSITION IN MASTER FILE	IN MASTER FILE	IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED
AQCR	AQCR	50	3	5	N/A
County	CNTY	46	4	5	N/A
Plant	PLNT	53	4	5	N/A
Segment Date	DATE	57	5	6	N/A
Segment Day	DAYY	59	3	5	N/A
Segment ID	SEGM	57	2	5	N/A
Segment Year	YEAR	62	1	5	N/A
State	STTE	44	2	5	N/A

DATA ELEMENTS COMMON TO POINT, SCC, and COMMENT SEGMENTS					
NEDS Point ID	NPID	63	2	5	N/A

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Figure PST23-4. Quick Look Data Element Abbreviations

PLANT SEGMENT DATA ELEMENTS

DATA ELEMENT	ABBRE-VIATION	POSITION IN MASTER FILE	DATA ELEMENT LENGTH IN MASTER FILE	IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED
AQCR	OAQC	50	3	5	N/A
City	CITY	82	4	5	N/A
Contact	CONT	89	15	16	N/A
County	OCNT	46	4	5	N/A
Local Control	LCON	68	2	5	N/A
Mailing Address	MAIL	182	48	49	N/A
Name and Address	NAAD	124	48	49	N/A
No. of Employees	NUME	172	4	5	9
Ownership	OWNS	88	1	5	N/A
Plant ID	OPLN	53	4	5	N/A
Principal Product	PROD	114	10	11	N/A
Property Area	PROP	176	6	8	13
Segment Date	ODTE	57	5	6	N/A
Segment Day	ODAY	59	3	5	N/A
Segment ID	OSEG	62	1	5	N/A
Segment Year	OYER	57	2	5	N/A
State	OSTT	44	2	5	N/A
Telephone	TELE	104	10	11	N/A
User Control Region	UCON	65	3	5	N/A
User Plant ID	UPLT	70	12	13	N/A
UTM Zone	UTMZ	86	2	5	N/A

O Denotes zero

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Figure PST23-4 - continued. Quick Look Data Element Abbreviations

POINT SEGMENT DATA ELEMENTS

DATA ELEMENT	ABBRE-VIATION	POSITION IN MASTER FILE	DATA ELEMENT LENGTH IN MASTER FILE	IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED
AQCR	1AQC	50	3	5	N/A
Boiler Design Capacity	BOIL	109	5	11	11
Control Regulations	CREG	160	12	13	N/A
Control Regulation 1	REG1	160	4	5	N/A
Control Regulation 2	REG2	164	4	5	N/A
Control Regulation 3	REG3	168	4	5	N/A
Compliance Schedule	CSCH	149	4	5	N/A
Comp. Schedule Month	SCHM	151	2	5	N/A
Comp. Schedule Year	SCHY	149	2	5	N/A
Compliance Status	CSTT	148	1	5	N/A
Compliance Update	CUPD	153	6	7	N/A
Comp. Update Day	CUDY	157	2	5	N/A
Comp. Update Month	CUMN	155	2	5	N/A
Comp. Update Year	CUYR	153	2	5	N/A
County	1CNT	46	4	5	N/A
ECAP	ECAP	159	1	5	N/A
Exhaust Flow Rate	FLOW	128	7	8	N/A
IPP Code	IPPC	72	2	5	N/A
Latitude	LATT	83	6	7	N/A
Latitude Degree	LATD	83	2	5	N/A
Latitude Minute	LATM	85	2	5	N/A
Latitude Second	LATS	87	2	5	N/A

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Figure PST23-4 - continued. Quick Look Data Element Abbbreviations

POINT SEGMENT DATA ELEMENTS (continued)

			DATA ELEMENT LENGTH		
DATA ELEMENT	ABBRE-VIATION	POSITION IN MASTER FILE	IN MASTER FILE	IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED
Longitude	LONG	89	7	8	N/A
Longitude Degree	LOND	89	3	5	N/A
Longitude Minute	LONM	92	2	5	N/A
Longitude Second	LONS	94	2	5	N/A
NEDS Point ID/SEGMENT 1	S1ID	63	2	5	N/A
Normal Operating Rate	NORM	104	5	6	N/A
Number of Pollutants	NUMP	239	2	5	N/A
Plant ID	1PLN	53	4	5	N/A
Plume Height	PLUM	140	4	5	N/A
Point IDs	PTID	63	5	6	N/A
Points w/ Common Stack	PWCS	144	4	5	N/A
Segment Date	1DTE	57	5	6	N/A
Segment Day	1DAY	59	3	5	N/A
Segment ID	1SEG	62	1	5	N/A
Segment Year	1YER	57	2	5	N/A
SIC Code	SICC	68	4	5	N/A
Space Heat %	SPAC	114	3	5	N/A
Stack Data	STAD	117	27	28	N/A
Stack Diameter	DIAM	121	3	5	N/A
Stack Height	HGHT	117	4	5	N/A
Stack Temperature	TEMP	124	4	5	N/A
State	1STT	44	2	5	N/A
					N/A

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Figure PST23-4 - continued. Quick Look Data Element Abbreviations

POINT SEGMENT DATA ELEMENTS (continued)

DATA ELEMENT	ABBRE-VIATION	POSITION IN MASTER FILE	DATA ELEMENT LENGTH IN MASTER FILE	IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED
Throughput	THRU	96	8	9	N/A
Throughput/Dec-Feb	WNTR	96	2	5	N/A
Throughput/Jun-Aug	SUMM	100	2	5	N/A
Throughput/Mar-May	SPNG	98	2	5	N/A
Throughput/Sep-Nov	FALL	102	2	5	N/A
User Point ID	UPID	65	3	5	N/A
UTM Coordinates	UTMC	74	9	10	N/A
UTM Horizontal	HORZ	74	4	6	N/A
UTM Vertical	VERT	78	5	7	N/A
Velocity	VELO	135	5	6	N/A

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Figure PST23-4 - continued. Quick Look Data Element Abbreviations

REPEATING POINT SEGMENT DATA ELEMENTS
(POLL must be specified)

			DATA ELEMENT LENGTH		
DATA ELEMENT	ABBRE-VIATION	POSITION IN MASTER FILE	IN MASTER FILE	IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED
Control Equipment	CEQP	253	6	7	N/A
Control Equip. Cost	CCST	246	7	9	14
Emission Units	EUNT	290	1	5	N/A
Emissions Allowable	ALLO	276	7	8	13
Emissions Estimate	ESTI	262	7	8	13
Emissions Measured	MEAS	269	7	8	13
Est Control Efficiency	ECEF	259	3	5	N/A
Estimation Method	ESTM	291	1	5	N/A
Pollutant ID	POLL	241	5	6	N/A
Primary Control Equip	PCTL	253	3	5	N/A
Secondary Control Equip	SCTL	256	3	5	N/A
Test Method	TSTM	292	1	5	N/A

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Figure PST23-4 - continued. Quick Look Data Element Abbreviations

SCC SEGMENT DATA ELEMENTS

DATA ELEMENT	ABBRE-VIATION	POSITION IN MASTER FILE	DATA ELEMENT LENGTH IN MASTER FILE	IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED
AQCR	2AQC	50	3	5	N/A
Ash Content	ASHC	98	3	5	N/A
BEC Code	BECC	75	5	6	N/A
BEC ID	BECI	78	2	5	N/A
BEC Number	BECN	75	3	5	N/A
Confidentiality	CONF	106	1	5	N/A
County	2CNT	46	4	5	N/A
Emission Factor Source	EMFS	133	1	5	N/A
Fuel Process Rate	FPRT	81	7	8	13
Fuel Units	FUNT	80	1	5	N/A
Heat Content	HEAT	101	5	6	N/A
Maximum Design Rate	MDRT	88	7	9	14
NEDS Point ID/Segment 2	S2ID	63	2	5	N/A
No. of Emission Factors	NEMF	197	2	5	N/A
Plant ID	2PLN	53	4	5	N/A
Source Classification Code	SCCC	65	8	9	N/A
SCC 1	SCC1	65	1	5	N/A
SCC 2	SCC2	66	2	5	N/A
SCC 3	SCC3	68	3	5	N/A
SCC 4	SCC4	71	2	5	N/A
SCC Sequence Number	SSQN	73	2	5	N/A

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Figure PST23-4 - continued. Quick Look Data Element Abbreviations

SCC SEGMENT DATA ELEMENTS (continued)

DATA ELEMENT	ABBRE- VIATION	POSITION IN MASTER FILE	DATA ELEMENT LENGTH IN MASTER FILE	DATA ELEMENT LENGTH IN QUICK LOOK REPORT	DATA ELEMENT LENGTH IN QUICK LOOK REPORT IF TOTALLED
Segment Date	2DTE	57	5	6	N/A
Segment Day	2DAY	59	3	5	N/A
Segment ID	2SEG	62	1	5	N/A
Segment Year	2YER	57	2	5	N/A
Source Code	SRCC	107	1	5	N/A
Source Description	SRCD	108	25	26	N/A
State	2STT	44	2	5	N/A
Sulfur Content	SULC	95	3	5	N/A

Repeating SCC SEGMENT DATA ELEMENTS
(MPID must be specified)

DATA ELEMENT	ABBRE- VIATION	POSITION IN MASTER FILE	DATA ELEMENT LENGTH IN MASTER FILE	DATA ELEMENT LENGTH IN QUICK LOOK REPORT	DATA ELEMENT LENGTH IN QUICK LOOK REPORT IF TOTALLED
Ash/Sulfur Code	ASSC	214	1	5	N/A
Emission Factor	EMFA	204	9	11	N/A
Emission Factor Units	EMFU	215	1	5	N/A
Pollutant ID	MPID	199	5	6	N/A

(Page 8 of 9)

Figure PST23-4 - continued. Quick Look Data Element Abbreviations

COMMENT SEGMENT DATA ELEMENTS

DATA ELEMENT	ABBRE-VIATION	POSITION IN MASTER FILE	DATA ELEMENT LENGTH IN MASTER FILE	IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED
AQCR	3AQC	50	3	5	N/A
Comments	COMM	71	102	99	N/A
County	3CNT	46	4	5	N/A
Left Comment	LCMT	71	51	52	N/A
Line Number	LINE	67	3	5	N/A
NEDS Point ID/Segment 3	S3ID	63	2	5	N/A
Plant ID	3PLN	53	4	5	N/A
PNR Sequence Number	SEQN	65	2	5	N/A
Right Comment	RCMT	122	51	52	N/A
Segment Date	3DTE	57	5	6	N/A
Segment Day	3DAY	59	3	5	N/A
Segment ID	3SEG	62	1	5	N/A
Segment Year	3YER	57	2	5	N/A

(Page 9 of 9)

Figure PST23-4 - continued. Quick Look Data Element Abbreviations

BEST DOCUMENT AVAILABLE

```
//PSTEST23 JOB    (ACCOUNTING INFO)
//*
//*  RETRIEVE AN ANSWER FILE; THEN PRODUCE TWO
//*  REPORTS FOR IT, FIRST, A QUICK LOOK REPORT, AND
//*  THEN A DETAILED LISTING
//*
//TEST23A EXEC EPRPM60,
//       MSTRFIL=FPMSTR6,
//       ANSWFIL=FPANSRA
//*
//* - PRODUCE THE ANSWER FILE AND QUICK LOOK
//*    REPORT FOR SUSPENDED PARTICULATES
//*
//EDIT.INPUT DD *
$$SELECT        PARTICULATE EMISSIONS BY STATE AND COUNTY    01/01/80
10   THRU G 00000000        AND
10   POLL E 11101           AND
10   ESTI G 0000000
20 QL AF
30 STTEX CNTYX AQCR
40   STTE  CNTY  AQCR  PLNT  NPID  ESTIX
$$END
//TEST23B EXEC EPRPM20,
//       MSTRFIL=FPANSRA
//*
//*   PRODUCE A DETAILED LISTING OF THE ANSWER FILE FROM STEP A
//*
```

Figure PST23-5. Run Stream

```
..............................................................................................................................
                                    EIS/PS QUICK LOOK EDIT PROGRAM  -  DIAGNOSTIC REPORT                         PAGE    1
..............................................................................................................................
PROGRAM NAME: PRTQLED (EP0260)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
..............................................................................................................................
TITLE         PARTICULATE EMISSIONS BY STATE AND COUNTY     01/01/80
..............................................................................................................................

SELECTION CRITERIA

10    THRU G 00000000        AND
10    POLL E 11101           AND
10    ESTI G 0000000

REPORT FORMATS

20 QL AF

REPORT SEQUENCE

30 STTEX CNTYX AQCR
     STATE                           PAGE BREAK/SUBTOTAL
     COUNTY                          PAGE BREAK/SUBTOTAL
     AQCR

QUICK LOOK DATA ELEMENTS - REPORT ONE

40    STTE  CNTY  AQCR  PLNT  NPID  ESTIX
      STATE
      COUNTY
      AQCR
      PLANT ID
      NEDS POINT ID
      EMISSIONS ESTIMATE        TOTAL
```

Figure PST23-6. Sample Output

(Page 1 of 8)

BEST DOCUMENT AVAILABLE

```
                         EIS/PS QUICK LOOK EXTRACT PROGRAM  -  DIAGNOSTIC REPORT                                  PAGE     1

PROGRAM NAME: PRTQLEX (EP0270)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF EIS/PS MASTER FILE RECORDS READ:              169
NUMBER OF QUICK LOOK REPORT RECORDS WRITTEN:             25
NUMBER OF TURNAROUND DOCUMENT RECORDS WRITTEN:            0
NUMBER OF ANSWER FILE RECORDS WRITTEN:                   38
```

```
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
...................................................................................................................
                                      EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM                 PAGE    1
...................................................................................................................
      PARTICULATE EMISSIONS BY STATE AND COUNTY     01/01/80
...................................................................................................................
STTE CNTY AQCR PLNT NPID       EM-ESTI
...................................................................................................................
06    1960 053  0001 01          0000100
06    1960 053  0001 16          0000100
06    1960 053  0041 02          0000051
                             000000000251
NUMBER OF RECORDS IN THIS CNTY IS       3
```

Figure PST23-6 - continued. Sample Output

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```
........................................................................................................................
                                      EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM                        PAGE   2
........................................................................................................................
      PARTICULATE EMISSIONS BY STATE AND COUNTY     01/01/80
........................................................................................................................
STTE CNTY AUCH PLNT NPID       EM-ESTI
........................................................................................................................
06   2004 053  AUN1 1W         0000100
06   2004 053  AUN1 AM         0000100
                          000000000200
NUMBER OF RECORDS IN THIS CNTY IS       2
                          000000000451
NUMBER OF RECORDS IN THIS STTE IS       5
```

```
........................................................................................................................
                                      EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM                        PAGE   7
........................................................................................................................
      PARTICULATE EMISSIONS BY STATE AND COUNTY     01/01/80
........................................................................................................................
STTE CNTY AUCH PLNT NPID       EM-ESTI
........................................................................................................................
34   0040 203  0001 01         0000003
34   0040 203  0001 02         0000003
34   0040 203  0001 03         0000003
34   0040 203  0001 04         0000003
34   0040 203  0003 01         0000001
34   0040 203  0005 01         0000045
34   0040 203  0005 02         0000061
                          000000000059
NUMBER OF RECORDS IN THIS CNTY IS       7
                          000000000059
NUMBER OF RECORDS IN THIS STTE IS       7

TOTAL NUMBER OF QUICK LOOK LINES EQUALS          25
```

Figure PST23-6 - continued. Sample Output
(Page 3 of 8)

BEST DOCUMENT AVAILABLE

```
                         FIS/PS MASTER FILE DETAILED REPORT PROGRAM - DIAGNOSTIC REPORT                         PAGE 1


PROGRAM NAME: PRPMSTR (EPU210)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF SEGMENT 0 RECORDS PRINTED:          13
NUMBER OF SEGMENT 1 RECORDS PRINTED:          25
NUMBER OF SEGMENT 2 RECORDS PRINTED:           0
NUMBER OF SEGMENT 3 RECORDS PRINTED:           0
```

Figure PST23-6 - continued. Sample Output

(Page 4 of 8)

```
                                   EIS/PS MASTER FILE DETAILED REPORT                                       PAGE    1

          STATE COUNTY AQCR PLANT ID
           06    1960   053   0001

  DATE       SEGMENT    CONTROL   LOCAL                                                                 PRINCIPAL
YEAR DAY      TYPE      REGION    CONTROL     PLANT ID     CITY UTM ZONE OWNER      CONTACT        TELEPHONE     PRODUCT
 80  065       0          123         04    PL-3175        0012     12      P   FRANKE SMYTHE     5919544376   9ENGINES

                                                           NUMBER OF  PROPERTY
ESTABLISHMENT NAME AND ADDRESS             ZIP     EMPLOYEES    AREA     MAILING ADDRESS                          ZIP
SMYTHE ENGINE COMPANY INC.                           0025     00003.5    RED OAKE, COLORADO

                                                       NEDS FLAG   PLANT FLAG   E I S   F L A G S
P7 PLANT COMMENT                                          P1           P7          1   2   3   4
PLANT WILL START PRODUCTION 05/01/80                      S            S           S   S   S   S

  DATE    SEGMENT POINT    USEP              UTM COORDINATES     LATITUDE      LONGITUDE    ANNUAL THRUPUT   NORMAL OPERATING
YEAR DAY   TYPE    ID    POINT ID SIC  IPP HORIZONTAL VERTICAL DEG MIN SEC  DEG MIN SEC  DEC MAR JUN SEP  HR/D D/WK WK/YR
 80  001    1      01       011   1141 21     245.4     0955.5  71  21  21   051  51  52   02  03  03  01   10   5    47

BOILER   SPACE  S     T     A     C     K          D     A     T     A       COMP SCHED   COMP STATUS          CONTROL REGULATION
CAPACITY HEAT   HEIGHT DIAM TEMP FLOW RATE VELOCITY PLUME PNTS  COMP YEAR MONTH  YEAR MONTH DAY  ECAP REG 1 REG 2 REG 3
 00137    09.7   0090 01.0 0100  0000123    00150   0900           2   81   10     79   12    15   1      44    15    17

                                                       N E D S    F L A G S  POINT FLAG  E I S   F L A G S
P7 POINT COMMENT                                       P2  P3  P4  P5  PWCS       P7         11   12   14
POLL 43101 ADDED 03/21/80                               S   S   S   S              S          S    S    S

NUMBER OF  POLLUTANT CONTROL  CONTROL EQUIP ESTM CNTL          E   M   I   S   S   I   O   N   S            ESTM   TEST  EIS FLG
POLLUTANTS    ID       COST      PRI  SEC    EFFICIENCY ESTIMATE MEASURED ALLOWABLE POTENTIAL UNITS METHOD METHOD   13
    01        TSP    00001.00    022  041       98.5     0000100  0000200  0000300                  4      3      3      S
```

Figure PST23-6 - continued. Sample Output

(Page 5 of 8)

```
                               EIS/PS MASTER FILE DETAILED REPORT                                    PAGE    2


        STATE COUNTY AQCR PLANT ID
         06    1960   053   0001

  DATE      SEGMENT   CONTROL  LOCAL                                                                    PRINCIPAL
YEAR DAY      TYPE    REGION   CONTROL    PLANT ID     CITY UTM ZONE OWNER      CONTACT       TELEPHONE    PRODUCT
 80  065       0        123       04    PL-3175        0012    12      P   FRANKE SMYTHE    5919544376   9ENGINES

                                                     NUMBER OF  PROPERTY
ESTABLISHMENT NAME AND ADDRESS              ZIP     EMPLOYEES    AREA     MAILING ADDRESS                            ZIP
SMYTHE ENGINE COMPANY INC.                             0025     00003.5   RED OAKE, COLORADO

                                                        NEDS FLAG  PLANT FLAG  E I S   F L A G S
P7 PLANT COMMENT                                           P1          P7        1   2   3   4
PLANT WILL START PRODUCTION 05/01/80                       S           S         S   S   S   S

  DATE    SEGMENT POINT   USER              UTM COORDINATES    LATITUDE      LONGITUDE    ANNUAL THRUPUT    NORMAL OPERATING
YEAR DAY    TYPE    ID    POINT ID SIC  IPP HORIZONTAL VERTICAL DEG MIN SEC  DEG MIN SEC  DEC MAR JUN SEP   HR/D D/WK WK/YR
 80  113     1      10       011   1141 21    245.4     0955.5   71  21  21  051  51  52   02  03  03  01    10   5    47

BOILER   SPACE   S     T    A    C    K          D    A    T    A       COMP SCHED   COMP STATUS         CONTROL REGULATION
CAPACITY HEAT    HEIGHT DIAM TEMP FLOW RATE VELOCITY PLUME PNTS   COMP YEAR MONTH  YEAR MONTH DAY  ECAP REG 1 REG 2 REG 3
 00137    09.7    0090 01.0 0100  0000123    00151   0900            2   81    10     79   12    15   1     44    15    17

                                                        N E D S    F L A G S  POINT FLAG  E I S   F L A G S
P7 POINT COMMENT                                        P2  P3  P4  P5  PWCS       P7          11   12   14
POINT ADDED 12/14/79                                     S   S   S   S              S           S    S    S

NUMBER OF   POLLUTANT CONTROL   CONTROL EQUIP ESTM CNTL         E  M  I  S  S  I  O  N  S               ESTM   TEST  EIS FLG
POLLUTANTS     ID      COST       PRI   SEC    EFFICIENCY ESTIMATE MEASURED ALLOWABLE POTENTIAL UNITS METHOD METHOD   13
    01        TSP    00001.00    022   041       98.5      0000100  0000200  0000300               4      3      3      S
```

Figure PST23-6 - continued. Sample Output

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```
                                          EIS/PS MASTER FILE DETAILED REPORT                                            PAGE   24


          STATE COUNTY AQCR PLANT ID
            34   0040   203   0005

  DATE      SEGMENT   CONTROL  LOCAL                                                                              PRINCIPAL
YEAR DAY     TYPE     REGION   CONTROL    PLANT ID    CITY UTM ZONE OWNER     CONTACT       TELEPHONE    PRODUCT
 80  000      0                                       0020    17            D F SMITH

                                                     NUMBER OF  PROPERTY
ESTABLISHMENT NAME AND ADDRESS              ZIP    EMPLOYEES    AREA     MAILING ADDRESS                              ZIP
TATEVILLE MILLS TATEVILLE

                                                          NEDS FLAG  PLANT FLAG  E I S   F L A G S
P7 PLANT COMMENT                                              P1          P7        1   2   3   4
                                                              S           S         S   S   S   S

  DATE   SEGMENT POINT   USER              UTM COORDINATES    LATITUDE     LONGITUDE    ANNUAL THRUPUT   NORMAL OPERATING
YEAR DAY   TYPE    ID   POINT ID SIC  IPP HORIZONTAL VERTICAL DEG MIN SEC  DEG MIN SEC  DEC MAR JUN SEP  HR/D D/WK WK/YR
 71  000    1      01            2299 00    373.0     3782.0                             25  25  25  25    24   5     52

BOILER   SPACE  S    T    A    C    K         D    A     T    A       COMP SCHED   COMP STATUS         CONTROL REGULATION
CAPACITY HEAT   HEIGHT DIAM TEMP FLOW RATE VELOCITY PLUME PNTS  COMP YEAR MONTH  YEAR MONTH DAY  ECAP REG 1 REG 2 REG 3
 00034   13.6   0100  06.0 0450  0023738            0000          3   81    01

                                                          N E D S    F L A G S  POINT FLAG  E I S   F L A G S
P7 POINT COMMENT                                          P2  P3  P4  P5. PWCS       P7        11   12   14
                                                          S   S   S   S              S         S    S    S

NUMBER OF  POLLUTANT CONTROL  CONTROL EQUIP ESTM CNTL          E  M  I  S  S  I  O  N  S              ESTM   TEST  EIS FLG
POLLUTANTS    ID      COST       PRI  SEC    EFFICIENCY ESTIMATE MEASURED ALLOWABLE POTENTIAL UNITS METHOD METHOD   13
    01       TSP                 008  000       82.0     0000045           0000028   0000251           3              S
```

Figure PST23-6 - continued. Sample Output

(Page 7 of 8)

BEST DOCUMENT AVAILABLE

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```
                                       EIS/PS MASTER FILE DETAILED REPORT                                       PAGE   25


         STATE COUNTY AQCR PLANT ID
          34    0040   203   0005

  DATE      SEGMENT   CONTROL  LOCAL                                                                     PRINCIPAL
YEAR DAY     TYPE     REGION   CONTROL    PLANT ID    CITY UTM ZONE OWNER     CONTACT        TELEPHONE    PRODUCT
 80  000      0                                       0020    17             D F SMITH

                                                                       NUMBER OF  PROPERTY
ESTABLISHMENT NAME AND ADDRESS                      ZIP    EMPLOYEES    AREA     MAILING ADDRESS                              ZIP
TATEVILLE MILLS TATEVILLE

                                                                       NEDS FLAG  PLANT FLAG  E I S   F L A G S
P7 PLANT COMMENT                                                           P1         P7        1   2   3   4
                                                                           S          S         S   S   S   S

  DATE    SEGMENT POINT   USER                 UTM COORDINATES    LATITUDE     LONGITUDE   ANNUAL THRUPUT   NORMAL OPERATING
YEAR DAY    TYPE    ID   POINT ID SIC  IPP HORIZONTAL VERTICAL DEG MIN SEC  DEG MIN SEC  DEC MAR JUN SEP  HR/D D/WK WK/YR
 71  000     1      02            2299 00                                                25  25  25  25   24   5    52

BOILER   SPACE   S    T    A    C    K         D    A    T    A       COMP SCHED   COMP STATUS          CONTROL REGULATION
CAPACITY HEAT   HEIGHT DIAM TEMP FLOW RATE VELOCITY PLUME PNTS  COMP YEAR MONTH  YEAR MONTH DAY  ECAP REG 1 REG 2 REG 3
 00060    13.6   0100  08.0 0450  0034201            0000          4

                                                                       N E D S    F L A G S  POINT FLAG  E I S    F L A G S
P7 POINT COMMENT                                                       P2  P3  P4  P5  PWCS      P7         11   12   14
                                                                        S   S   S   S             S          S    S    S

NUMBER OF  POLLUTANT CONTROL  CONTROL EQUIP ESTM CNTL        E  M  I  S  S  I  O  N  S              ESTM   TEST  EIS FLG
POLLUTANTS    ID       COST      PRI  SEC    EFFICIENCY ESTIMATE MEASURED ALLOWABLE POTENTIAL UNITS METHOD METHOD   13
    01       TSP                 000  000       00.0     0000001           0000045   0000001          3              S
```

Figure PST23-6 - continued. Sample Output

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EIS/PS Test 24 - Ad Hoc

Produce Three Quick Look Reports

In this test run, three quick look reports are produced using the cataloged procedure EPRPM60 which executes PRTQLED (EP0260), the quick look edit program; PRTQLEX (EP0270), the quick look extract program; and the PRPQUIK (EP0280), the quick look report program.

The user-supplied quick look control cards input to PRTQLED (EP0260) will select all master file records and produce three quick look reports. At least one 10 card must be present in a quick look run; therefore, in order to select all master file records, a 10 card must specify a condition that is true for all records. The 10 card in this test run specifies that the state code must be present for a record to be selected. Since the state code is a key field, it will always be present for every master file record.

The 20 card specifies that a quick look report is desired. There is no 30 card supplied in the run stream, therefore the default sort sequence will be the same as the master file sequence.

The 10 card specifies the record selection criteria, but the 40, 41, and 42 cards specify the records from which data will be extracted for a given report. The 40 card in this test run contains only plant segment data elements, therefore only data from plant records will be included in the first report. The 41 card contains only point segment data elements, therefore only data from point records will be present in the second report. The 42 card contains only SCC segment data elements, therefore only data from SCC records will be present in the third report.

The user should be aware that all master file records (169 in this test run) passed the 10 card selection criteria, but only the plant, point, and SCC records (a total of 154) were selected for the quick look reports. If an answer file had been requested, it would contain all records from the input master file (hence, it would be an exact copy). See EIS/PS Test 23 for a discussion of the quick look package.

The run stream for this test run contains the JCL needed to produce a quick look report. It also contains the quick look control cards that are input to PRTQLED (EP0260). The run stream for this test run is shown in Figure PST24-1.

A substitutable parameter is used to specify EPMSTRE as the name of the master file input to PRTQLEX (EP0270). The DD (data definition) information for the quick look control cards is also supplied. Sample output produced by this run stream is shown in Figure PST24-2.

```
//PSTEST24 JOB     (ACCOUNTING INFO)
//*
//*   PRODUCE THREE QUICK LOOK REPORTS
//*
//TEST24A EXEC EPRPM60,
//       MSTRFIL=EPMSTR6,
//       ANSRFIL=EPANSR8
//*
//*   PRODUCE THE FIRST REPORT WITH INFORMAITON FROM THE
//*   PLANT RECORD;  PRODUCE THE SECOND WITH INFORMATION FROM THE
//*   POINT RECORD;  GENERATE THE LAST REPORT WITH DATA FROM THE
//*   SCC RECORD
//*
//EDIT.INPUT DD *
$$SELECT   REPORT ONE: PLANTS,  REPORT TWO: POINTS,  REPORT THREE: SCC'S
10   STIE P
20 QL
40   0STT  0CNT  0AQC  0PLN  NAAD
41   1STT  1CNT  1AQC  1PLN  S1ID  UTMC  NUMP
42   2STT  2CNT  2AQC  2PLN  S2ID  SCCC  SSON  EPRT  MORT
$$END
```

Figure PST24-1. Run Stream

```
..................................................................................................................................
                                           EIS/PS QUICK LOOK EDIT PROGRAM  -  DIAGNOSTIC REPORT                             PAGE    1
..................................................................................................................................
PROGRAM NAME: PRTQLED (EP0260)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
..................................................................................................................................
TITLE    REPORT ONE: PLANTS,  REPORT TWO: POINTS,  REPORT THREE: SCC'S
..................................................................................................................................


SELECTION CRITERIA

10   STTE P


REPORT FORMATS

20 QL


REPORT SEQUENCE

     DEFAULT REPORT SEQUENCE, SAME AS MASTER FILE ORDER


QUICK LOOK DATA ELEMENTS - REPORT ONE

40   0STT  0CNT  0AQC  0PLN  NAAD
     STATE
     COUNTY
     AQCR
     PLANT ID
     NAME AND ADDRESS


QUICK LOOK DATA ELEMENTS - REPORT TWO

41   1STT  1CNT  1AQC  1PLN  S1ID  UTMC  NUMP
     STATE
     COUNTY
     AQCR
     PLANT ID
     SEGMENT 1 NEDS POINT ID
     UTM COORDINATES
     NUMBER OF POLLUTANTS


QUICK LOOK DATA ELEMENTS - REPORT THREE
```

Figure PST24-2. Sample Output (Page 1 of 7)

BEST DOCUMENT AVAILABLE

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```
.....................................................................................................................
                                    EIS/PS QUICK LOOK EDIT PROGRAM  -  DIAGNOSTIC REPORT                 PAGE   2
.....................................................................................................................
TITLE    REPORT ONE: PLANTS,  REPORT TWO: POINTS,  REPORT THREE: SCC'S
.....................................................................................................................

02   2STT  2CNT  2AQC  2PLN  S2ID  SCCC  SSQN  FPRT  MDRT
     STATE
     COUNTY
     AQCR
     PLANT ID
     SEGMENT 2 NEDS POINT ID
     SCC CODE
     SCC SEQUENCE NUMBER
     FUEL PROCESS RATE
     MAX DESIGN RATE
```

```
                              EIS/PS QUICK LOOK EXTRACT PROGRAM  -  DIAGNOSTIC REPORT                    PAGE    1

PROGRAM NAME: PRTQLEX (EP0270)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF EIS/PS MASTER FILE RECORDS READ:          169
NUMBER OF QUICK LOOK REPORT RECORDS WRITTEN:        154
NUMBER OF TURNAROUND DOCUMENT RECORDS WRITTEN:        0
NUMBER OF ANSWER FILE RECORDS WRITTEN:                0
```

Figure PST24-2 - continued. Sample Output

(Page 2 of 7)

BEST DOCUMENT AVAILABLE

```
..............................................................................................................
                                         EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM                          PAGE   1
..............................................................................................................
  REPORT ONE: PLANTS,  REPORT TWO: POINTS,  REPORT THREE: SCC'S
..............................................................................................................
SITE CNTY AQCR PLNT NAME-AND-ADDRESS
..............................................................................................................
06   1960 053  0001 SMYTHE ENGINE COMPANY INC.
06   1960 053  0041 SYMTHE ENGINE CO
06   2004 053  A0W1 HANSON ENGINE CO
08   0008 240  8001 SAINT AGNES MILLS REEDSVILLE
08   0006 240  8002 GENERAL INC TAYLOR
08   0008 240  8005 GENERAL INC TAYLOW
08   0080 240  8000 AG SERV ADMIN AG LIMEST PLT
08   0080 240  8001 BETTEROADS ASPHALT PLANT 2 RD 2 KM 139.6
08   0080 240  8002 BEST CONTRACTIN CORP.RD.2 KM.139.6
08   0080 240  8003 CENTRAL CITY CARS
08   0080 240  8005 LOADER MACHINE FOR SAND EXTRACTION.
08   0080 240  8006 CARIBE FOAM & BENDER BO
08   0080 240  8007 RENBECK LABORATORIES CARY
08   0120 240  8001 SMITH INDUSTIES
08   0120 240  8002 WENTER ASPHALT CORPORATION   RENNER
08   0120 240  8003 JONES AND GEORGE INC  WHITE OAK
18   0040 224  0001 LANCE J ELLER INC BOX 66 TASLEY NC
18   0040 224  0002 JELLY FARM IND INC BOX A TEMPERANCEVILLE
18   0040 224  0005 DENNER AIR PORT
18   0060 224  0001 S L WILLIAMSON CO RT 780 RED HILL
18   0060 224  0002 SMITH ELECTRIC CO NAYLORSVILLE
18   0060 224  0003 UNIV NC JEFFERSON PK AV & C&O RR TRACKS
18   0060 224  0004 LUCK QUARRIES RT 250 SHADWELL NC
34   0040 203  0001 ZELIS-PETERSON  ROCKY RIVER PLANT  29628
34   0040 203  0002 HALE MANUFACTURING CO HWY 28
34   0040 203  0003 STEPHENSON IND. CALHOUN MILLS
34   0040 203  0004 TATEVILLE MFG CO BOX 807 TATEVILLE
34   0040 203  0005 TATEVILLE MILLS TATEVILLE
34   0040 203  0006 GENERAL CABLE CORP BOX 250 TATEVILLE S C
34   0040 203  0007 HUGGINS GARMENT CO EUGENE IND DONALDS
34   0040 203  0008 GENERSBURG MILLS BOX 579 TATEVILLE 29620
34   0060 053  0001 GRENITEVILLE CO STEVENS STECM STCTION

TOTAL NUMBER OF QUICK LOOK LINES EQUALS          32
```

Figure PST24-2 - continued. Sample Output
(Page 3 of 7)

```
................................................................................................................................
                                                EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM                     PAGE    1
................................................................................................................................
  REPORT ONE: PLANTS,  REPORT TWO: POINTS,  REPORT THREE: SCC'S
................................................................................................................................
STTE CNTY AQCR PLNT SIID UTM-COORD NUMP
................................................................................................................................
06    1960 053  0001 01   245409555 03
06    1960 053  0001 10   245409555 02
06    1960 053  0041 01   245409555 01
06    1960 053  0041 02   245409555 02
06    2004 053  AQW1 10   245409555 02
06    2004 053  AQW1 AB   245409555 02
08    0008 240  8002 01   121800429 05
08    0008 240  8005 01   121800424 05
08    0080 240  8000 81   064200603 05
08    0080 240  8001 01   076000556 05
08    0080 240  8001 02   076000556 05
08    0080 240  8002 01   077300547 05
08    0080 240  8003 01   075500610 05
08    0080 240  8003 02   075500610 05
08    0080 240  8003 03   075500610 05
08    0080 240  8003 04   075500610 05
08    0080 240  8005 01   072700612 05
08    0080 240  8006 01   074500638 05
08    0080 240  8007 01   061000762 05
08    0120 240  8001 01   076100637 05
08    0120 240  8002 01   083080683 05
18    0040 224  0001 01   432041634 05
18    0040 224  0002 01   452541932 05
18    0040 224  0005 01   458841991 05
18    0040 224  0005 02   458841991 05
18    0040 224  0005 03   458841991 05
18    0040 224  0005 04   458841991 05
18    0040 224  0005 05   457841887 05
18    0040 224  0005 06   457841887 05
18    0040 224  0005 07   457841887 05
18    0060 224  0001 01   709842043 05
18    0060 224  0002 01   721142130 05
18    0060 224  0003 01   192042125 05
18    0060 224  0003 02   192042125 05
18    0060 224  0003 03   192042125 05
18    0060 224  0003 04   192042125 05
34    0040 203  0001 01   252037780 05
34    0040 203  0001 02   252037780 05
34    0040 203  0001 03   252037780 05
34    0040 203  0001 04   252037780 05
34    0040 203  0002 01   372037820 03
34    0040 203  0002 02   372037820 03
34    0040 203  0003 01             16
34    0040 203  0004 01   373237795 05
34    0040 203  0005 01   373037820 05
34    0040 203  0005 02             05
34    0040 203  0005 03             05
34    0040 203  0006 01   370037820 05
34    0040 203  0006 02   370037820 05
```

Figure PST24-2 - continued. Sample Output
(Page 4 of 7)

BEST DOCUMENT AVAILABLE

```
.........................................................................................................................................................
                                              EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM                                    PAGE   2
.........................................................................................................................................................
  REPORT ONE: PLANTS,  REPORT TWO: POINTS,  REPORT THREE: SCC'S
.........................................................................................................................................................
STTE CNTY AQCR PLNT STID UTM-COORD NUMP
.........................................................................................................................................................
34    0040 203  0006 03   370037820 05
34    0040 203  0007 01   364038060 05
34    0040 203  0008 01   371037620 05
34    0060 053  0001 01   345237192 05

TOTAL NUMBER OF QUICK LOOK LINES EQUALS          53
```

Figure PST24-2 - continued. Sample Output (Page 5 of 7)

```
.............................................................................................................................
                                         EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM                          PAGE    1
.............................................................................................................................
  REPORT ONE: PLANTS,  REPORT TWO: POINTS,  REPORT THREE: SCC'S
.............................................................................................................................
STTE CNTY AQCR PLNT STID SCC      SSON FU-P-RT MAX-D-RT
.............................................................................................................................
06   1960 053  0001 01   40300101 00   0003000 0004.000
06   1960 053  0001 01   40300102 02   0003000 0004.000
06   1960 053  0001 10   40300101 00   0003000 0004.000
06   1960 053  0001 10   40300102 02   0003000 0004.000
06   1960 053  0041 01   10202302 02   0003000 0004.000
06   1960 053  0041 01   40300101 00   0003000 0004.000
06   1960 053  0041 02   10202302 01   0039600 0925.000
06   1960 053  0041 02   20600197 05   0050000 0003.000
06   1960 053  0041 02   20600198 05   0004000 0002.000
06   1960 053  0041 02   30103203 01   0004000 0003.000
06   1960 053  0041 02   30200201 01   0396000 9250.000
06   1960 053  0041 02   30200201 05   0500000 0030.000
06   1960 053  0041 02   30200201 10   0030000 0004.000
06   1960 053  0041 02   30200501 00   0003000 0004.000
06   1960 053  0041 02   30200502 02   0003000 0004.000
06   1960 053  0041 02   40300101 01   0030000 0040.000
06   1960 053  0041 02   40300101 02   0004000 0003.000
06   1960 053  0041 02   40300104 01   0002000 0010.000
06   1960 053  0041 02   90202020 01   0030000 0040.000
06   1960 053  0041 02   90202020 02   0004000 0009.000
06   1960 053  0041 02   90300201 02   0004000 0003.000
06   2004 053  AQW1 10   30200501 00   0003000 0004.000
06   2004 053  AQW1 10   30200502 02   0003000 0004.000
06   2004 053  AQW1 AB   30200501 00   0003000 0004.000
06   2004 053  AQW1 AB   30200502 02   0003000 0004.000
08   0008 240  8002 01   10200503 00   0000017 0000.010
08   0008 240  8005 01   10200503 00   0000017 0000.010
08   0080 240  8000 81   30501601 00   0005000 0008.000
08   0080 240  8001 01   30500201 00   0000612 0200.000
08   0080 240  8001 02   30500202 00   0125000 0200.000
08   0080 240  8003 01   10200082 00   0013970
08   0080 240  8003 02   10200082 00   0013970
08   0080 240  8003 03   10200082 00   0013970
08   0080 240  8003 04   10200081 00   0085090
08   0080 240  8005 01   30502006 00   0014929 0011.483
08   0080 240  8006 01   30102086 00   0000042 0000.002
08   0080 240  8007 01   30199999 00   0000029 0000.007
08   0120 240  8001 01   20100101 00   0000536 0001.858
08   0120 240  8002 01   30500202 00   0060000 0028.850
18   0040 224  0002 01   10200402 00   0000000 0000.140
18   0040 224  0005 01   10300402 00   0000241 0000.115
18   0040 224  0005 02   10300402 00   0000314 0000.115
18   0040 224  0005 03   10300402 00   0000231 0000.115
18   0040 224  0005 04   10300402 00   0000031
18   0040 224  0005 05   10300503 00   0000169 0000.160
18   0040 224  0005 06   40300107 00   0000240
18   0040 224  0005 07   40300105 00   0000050
18   0060 224  0001 01   30500201 00   0000140 0000.150
18   0060 224  0002 01   10200503 00   0000077 0000.042
```

Figure PST24-2 - continued. Sample Output

(Page 6 of 7)

```
..................................................................................................................
                                EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM                   PAGE   2
..................................................................................................................
  REPORT ONE: PLANTS,  REPORT TWO: POINTS,  REPORT THREE: SCC'S
..................................................................................................................
SITE CNTY AQCR PLNT STID SCC        SSUN FU-P-RT MAX-D-RT
..................................................................................................................
18    0060 224  0003 01   10300209 00   0003794 0002.080
18    0060 224  0003 02   10300209 00   0001676 0002.080
18    0060 224  0003 03   10300209 00   0006982
18    0060 224  0003 04   10300402 00   0000218 0000.002
34    0040 203  0001 01   10200402 00   0000050 0000.047
34    0040 203  0001 02   10200402 00   0000050 0000.047
34    0040 203  0001 03   10200402 00   0000050 0000.047
34    0040 203  0001 04   10200402 00   0000050 0000.020
34    0040 203  0002 01   10200503 00   0000006 0000.005
34    0040 203  0002 02   10200503 00   0000006 0000.005
34    0040 203  0003 01   10200402 00   0000080 0000.018
34    0040 203  0004 01   10200503 00   0000010 0000.007
34    0040 203  0005 01   10200204 00   0003867 0000.010
34    0040 203  0005 02   10200602 00   0000149 0000.402
34    0040 203  0005 03   10200602 00   0000062 0000.160
34    0040 203  0006 01   10200503 00   0000018 0000.004
34    0040 203  0006 02   10200603 00   0000015 0000.002
34    0040 203  0006 03   10200603 00   0000012 0000.001
34    0040 203  0007 01   10200603 00   0000002 0000.003
34    0040 203  0008 01   10200503 00   0000003 0000.005

TOTAL NUMBER OF QUICK LOOK LINES EQUALS         69
```

Figure PST24-2 - continued. Sample Output

(Page 7 of 7)

BEST DOCUMENT AVAILABLE

EIS/PS Test 25 - Ad Hoc

Produce a Quick Look Turnaround Document

In this test run, a quick look turnaround document is produced using the cataloged procedure EPRPM70 which executes PRTQLED (EP0260), the quick look edit program; PRTQLEX (EP0270), the quick look extract program; and PRPTURN (EP0290), the quick look turnaround document program.

The selection criteria for this test run specifies that all point records associated with state code 34 are to be selected from the master file input to PRTQLEX (EP0270). The 20 card specifies that a turnaround document is desired. The turnaround document will contain EIS/PS master file transactions that are generated from the records which pass the selection criteria. Since the selection criteria specifies only point records, the turnaround document will contain only transaction types 11, 12, 13, and 14. The transactions will be listed in a special format for coding purposes. See EIS/PS Test 23 for a discussion of the quick look package.

The run stream for this test run contains the JCL needed to produce a quick look turnaround document. This run stream is shown in Figure PST25-1.

A substitutable parameter is used to supply EPMSTR6 as the name of the master file input to PRTQLEX (EP0270). The DD (data definition) information for the quick look control cards is also supplied. Sample output produced by this run stream is shown in Figure PST25-2.

BEST DOCUMENT AVAILABLE

```
//PSTEST25 JOB    (ACCOUNTING INFO)
//*
//*   PRODUCE A TURNAROUND DOCUMENT FOR SELECTED POINTS
//*
//TEST25A EXEC EPRPM70,
//       MSTRFIL=FPMSTRA,
//       ANSRFIL=FPANSRC
//*
//*   SELECT ALL POINTS IN NORTH CAROLINA FOR INCLUSION
//*   IN THE TURNAROUND DOCUMENT
//*
//EDIT.INPUT DD *
$$SELECT   TURNAROUND DOCUMENT FOR ALL POINTS IN STATE 34
10   1SIT F 34
20 1A
$$END
```

Figure PST25-1. Run Stream

```
************************************************************************************************************
                                EIS/PS QUICK LOOK EDIT PROGRAM  -  DIAGNOSTIC REPORT                  PAGE    1
************************************************************************************************************
PROGRAM NAME: PRTQLED (EP0260)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
************************************************************************************************************
TITLE     TURNAROUND DOCUMENT FOR ALL POINTS IN STATE 34
************************************************************************************************************

SELECTION CRITERIA

10   ISTT E 34

REPORT FORMATS

20 TA

REPORT SEQUENCE

     DEFAULT REPORT SEQUENCE, SAME AS MASTER FILE ORDER




- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -




                          EIS/PS QUICK LOOK EXTRACT PROGRAM  -  DIAGNOSTIC REPORT                       PAGE     1

PROGRAM NAME: PRTQLEX (EP0270)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF EIS/PS MASTER FILE RECORDS READ:              169
NUMBER OF QUICK LOOK REPORT RECORDS WRITTEN:              0
NUMBER OF TURNAROUND DOCUMENT RECORDS WRITTEN:           17
NUMBER OF ANSWER FILE RECORDS WRITTEN:                    0
```

Figure PST25-2. Sample Output

(Page 1 of 4)

BEST DOCUMENT AVAILABLE

```
...........................................................................................................................................
                                                    EIS/PS QUICK LOOK TURNAROUND DOCUMENT                                      PAGE     1
...........................................................................................................................................
  TURNAROUND DOCUMENT FOR ALL POINTS IN STATE 34
...........................................................................................................................................

ST CNTY AQCR PLANT YR DAY
00 0000  000  1111 11 111
12 3456  789  0123 45 678

34 0040  203  0001 76 000
                   .. ...


ID UID  SIC IPP HORIZ  VERT  LATITUDE LONGITUDE DF MM JA SN HR D WK CAPAC HEAT     SEG CD ACT
12 222 2222  22 333 3 3333 3 34 44 44 444 44 55 55 55 55 55 66 6 66 66666 77 7      7  7   8
90 123 4567  89 012 3 4567 8 90 12 34 567 89 01 23 45 67 89 01 2 34 56789 01 2      8  9   0

01     2281  00 252.0 3778.0                    30 20 20 30 24 5 50 00049 20.0      1  1
.. ... ....  .. ... . .... . .. .. .. ... .. .. .. .. .. .. .. . .. ..... .. .      1  1   .

ID HGHT DIAM TEMP FL RATE VELOC PLUME PT/STK COMP SY SM UY UM UD E REG1 REG2 REG3 SEG CD ACT
12 2222 22 2 2233 3333333 34444  4444   4455    5 55 55 55 56 66 6 6666 6677 7777   7  7   8
90 1234 56 7 8901 2345678 90123  4567   8901    2 34 56 78 90 12 3 4567 8901 2345   8  9   0

01 0100 04.0 0345 0030159        0000           1       73 01 20                    1  2
.. .... .. . .... ....... .....  ....   ....    . .. .. .. .. .. . .... .... ....   1  2   .

ID POLUT CNTEQCST PCE SCE EFIC EMISEST MEAEMIS ALOEMIS UNIT EM TM                  SEG CD ACT
12 22222 22223 33 333 333 34 4 4444444 4555555 5555666    6  6  6                   7  7   8
90 12345 67890 12 345 678 90 1 2345678 9012345 6789012    3  4  5                   8  9   0

01 42401       .  000 000 00.0 0000006         9999999       3                      1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                   1  3   .
01 42602       .  000 000 00.0 0000002         0000130       3                      1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                   1  3   .
01 11101       .  000 000 00.0 0000003         0000022       3                      1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                   1  3   .
01 42101       .  000 000 00.0 0000000         9999999       3                      1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                   1  3   .
01 43101       .  000 000 00.0 0000000         9999999       3                      1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                   1  3   .

ID              POINT SEGMENT COMMENT                                               SEG CD ACT
12 22222222233333333334444444444555555555566666666667777                             7  7   8
90 12345678901234567890123456789012345678901234567890123                             8  9   0

01                                                                                   1  4
.. ..................................................                                1  4   .
```

Figure PST25-2 - continued. Sample Output
(Page 2 of 4)

```
*********************************************************************************************************************************
                                           EIS/PS QUICK LOOK TURNAROUND DOCUMENT                                     PAGE    7
*********************************************************************************************************************************
  TURNAROUND DOCUMENT FOR ALL POINTS IN STATE 34
*********************************************************************************************************************************

ST CNTY AUCH PLANT YR DAY
00 0000  000  1111 11 111
12 3456  789  0123 45 678

34 0040  203  0003 72 000
                   .. ...


ID UID  SIC IPP HORIZ  VERT  LATITUDE LONGITUDE DF MM JA SN HR D WK CAPAC HEAT     SEG CD ACT
12 222 2222  22 333 3 3333 3 34 44 44 444 44 55 55 55 55 55 66 6 66 66666 77 7       7  7   8
90 123 4567  89 012 3 4567 8 90 12 34 567 89 01 23 45 67 89 01 2 34 56789 01 2       8  9   0

01      2299  00     .      .                   25 25 25 25 24 5 50 00018 30.0       1  1
.. ... ....  .. ... . .... . .. .. .. ... .. .. .. .. .. .. .. . .. ..... .. .       1  1   .


ID HGHT DIAM TEMP FL RATE VELOC PLUME PT/STK COMP SY SM UY UM UD E REG1 REG2 REG3 SEG CD ACT
12 2222 22 2 2233 3333333 34444  4444   4455    5 55 55 55 56 66 6 6666 6677 7777   7  7   8
90 1234 56 7 8901 2345678 90123  4567   8901    2 34 56 78 90 12 3 4567 8901 2345   8  9   0

01 0030 02.0 0500                0000           2 80 04                             1  2
.. .... .. . .... ....... .....  ....   ....    . .. .. .. .. .. . .... .... ....   1  2   .


ID POLUT CNTEWCST PCE SCE EFIC EMISEST MEAEMIS ALOEMIS UNIT EM TM                   SEG CD ACT
12 22222 22223 33 333 333 34 4 4444444 4555555 5555666    6  6  6                     7  7   8
90 12345 67890 12 345 678 90 1 2345678 9012345 6789012    3  4  5                     8  9   0

01 42602       .  000 000 00.0 0000002         0000118       3                        1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                     1  3   .
01 11101       .  000 000 00.0 0000001         0000031       3                        1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                     1  3   .
01 42401       .  000 000 00.0 0000010         9999999       3                        1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                     1  3   .
01 42101       .  000 000 00.0 0000001         9999999       3                        1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                     1  3   .
01 43101       .  000 000 00.0 0000000         9999999       3                        1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                     1  3   .
01 42701       .         .   . 0004240 0006992 0023004       1  0                     1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                     1  3   .
01 52501       .             . 0004212 0006913 0023007       1  0                     1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                     1  3   .
01 24201       .             . 0004245 0006992 0023007       1  0                     1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                     1  3   .
01 42303       .             . 0004240 0006990 0020000       1  0                     1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                     1  3   .
01 42404       .             . 0004240 0006992 0023004       1  0                     1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                     1  3   .
01 26202       .             . 0004245 0006992 0023007       1  0                     1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                     1  3   .
```

Figure PST25-2 - continued. Sample Output
(Page 3 of 4)

```
....................................................................................................................................
                                            EIS/PS QUICK LOOK TURNAROUND DOCUMENT                                         PAGE     8
....................................................................................................................................
  TURNAROUND DOCUMENT FOR ALL POINTS IN STATE 34
....................................................................................................................................

ST CNTY AQCK PLANT YR DAY
00 0000  000  1111 11 111
12 3456  789  0123 45 678

34 0040  203  0003 72 000
                   .. ...


ID POLUT CNTEQCST PCE SCE EFIC EMISEST MEAEMIS ALDEMIS UNIT EM TM                  SEG CD ACT
12 22222 22223 33 333 333 34 4 4444444 4555555 5555666    6  6  6                    7  7   8
90 12345 67890 12 345 678 90 1 2345678 9012345 6789012    3  4  5                    8  9   0

01 42201      .             .  0004240 0006990 0020000       1  0                    1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                    1  3   .
01 34301      .             .  0004245 0006992 0023007       1  0                    1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                    1  3   .
01 12101      .             .  0004212 0006913 0023007       1  0                    1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                    1  3   .
01 22202      .             .                                                        1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                    1  3   .
01 33303      .             .                                                        1  3
.. ..... ..... .. ... ... .. . ....... ....... .......    .  .  .                    1  3   .

ID            POINT SEGMENT COMMENT                                                SEG CD ACT
12 2222222223333333333444444444455555555556666666666777                              7  7   8
90 1234567890123456789012345678901234567890123456789012                              8  9   0

01                                                                                   1  4
.. ....................................................                              1  4   .
```

Figure PST25-2 - continued. Sample Output (Page 4 of 4)

EIS/PS Test 26 - Ad Hoc

Produce a Quick Look Answer File and List the File in a Formatted Dump

In this test run, a quick look answer file is produced using the cataloged procedure EPRTM40 which executes PRTQLED (EP0260), the quick look edit program, and PRTQLEX (EP0270), the quick look extract program. The answer file is then listed using the cataloged procedure EPRPM30 which executes PRPDUMP (EP0220), the master file formatted dump program.

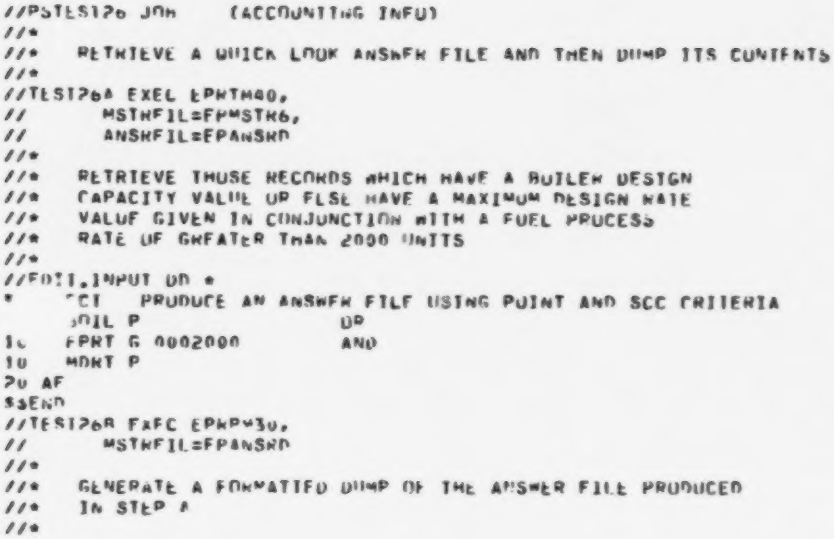
There are only two types of quick look control cards necessary for producing an answer file; one or more 10 cards and a 20 card. The answer file produced by the quick look package is retained and cataloged in the system catalog when using the cataloged procedure EPRTM40. The answer file output from PRTQLEX (EP0270) is input to PRPDUMP (EP0220). See EIS/PS Test 23 for a discussion of the quick look package and EIS/PS Test 5 for a discussion of PRPDUMP (EP0220).

The run stream for this test run contains the JCL needed to produce and list a quick look answer file. This run stream is shown in Figure PST26-1.

Substitutable parameters are used when executing EPRTM40 to supply the names of the master file input and the answer file output for PRTQLEX (EP0270). The names of these files are EPMSTR6 and EPANSRD, respectively. A substitutable parameter is also used to supply EPANSRD as the name of the master file input to PRPDUMP (EP0220). The DD (data definition) information for the quick look control cards is also supplied. Sample output produced by this run stream is shown in Figure PST26-2.

The user should note that although the selection criteria (10 cards) of the quick look control cards specify only point and SCC segment data elements, the answer file will contain the plant record to which a selected point record is subordinate and it will contain the plant and point records to which a selected SCC record is subordinate. The reason for this is to maintain the master file format within the answer file so that the answer file can be used as input to any program which accepts the master file.

BEST DOCUMENT AVAILABLE



```
//PSTEST26 JOB    (ACCOUNTING INFO)
//*
//*   RETRIEVE A QUICK LOOK ANSWER FILE AND THEN DUMP ITS CONTENTS
//*
//TEST26A EXEC EPRTM40,
//       MSTRFIL=EPMSTR6,
//       ANSRFIL=EPANSRD
//*
//*   RETRIEVE THOSE RECORDS WHICH HAVE A BOILER DESIGN
//*   CAPACITY VALUE OR ELSE HAVE A MAXIMUM DESIGN RATE
//*   VALUE GIVEN IN CONJUNCTION WITH A FUEL PROCESS
//*   RATE OF GREATER THAN 2000 UNITS
//*
//EDIT.INPUT DD *
*    SCT   PRODUCE AN ANSWER FILE USING POINT AND SCC CRITERIA
     BOIL P                    OR
10   FPRT G 0002000            AND
10   MDRT P
20 AF
$$END
//TEST26B EXEC EPRPM30,
//       MSTRFIL=EPANSRD
//*
//*   GENERATE A FORMATTED DUMP OF THE ANSWER FILE PRODUCED
//*   IN STEP A
//*
```

Figure PST26-1. Run Stream

```
..............................................................................................................................
                                   EIS/PS QUICK LOOK EDIT PROGRAM  -  DIAGNOSTIC REPORT                          PAGE    1
..............................................................................................................................
PROGRAM NAME: PSTQLED (EPS260)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
..............................................................................................................................
TITLE     PRODUCE AN ANSWER FILE USING POINT AND SCC CRITERIA
..............................................................................................................................


SELECTION CRITERIA

10    BOIL P                    OR
10    FPRT G 0002000            AND
10    HDRT P


REPORT FORMATS

20 AF


REPORT SEQUENCE

      DEFAULT REPORT SEQUENCE, SAME AS MASTER FILE ORDER
```

Figure PST26-2. Sample Output

(Page 1 of 6)

```
                    EIS/PS QUICK LOOK EXTRACT PROGRAM  -  DIAGNOSTIC REPORT                                   PAGE    1

PROGRAM NAME: PRTQLEX (EP0270)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF EIS/PS MASTER FILE RECORDS READ:           169
NUMBER OF QUICK LOOK REPORT RECORDS WRITTEN:           0
NUMBER OF TURNAROUND DOCUMENT RECORDS WRITTEN:         0
NUMBER OF ANSWER FILE RECORDS WRITTEN:                95
```

Figure PST26-2 - continued. Sample Output
(Page 2 of 6)

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```
                         EIS/PS MASTER FILE FORMATTED DUMP PROGRAM - DIAGNOSTIC REPORT                         PAGE     1

PROGRAM NAME: PRPDUMP (EP0220)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


PLANT (SEGMENT 0) RECORD COUNT:                                              27
POINT SOURCE (SEGMENT 1) RECORD COUNT:                                       39
POINT SOURCE POLLUTANT COUNT:                                               184
MACHINE PROCESS (SEGMENT 2) RECORD COUNT:                                    29
MACHINE PROCESS POLLUTANT COUNT:                                            120
PERMITS & REGISTRATION (SEGMENT 3) RECORD COUNT:                              0

AVERAGE NUMBER OF POINT SOURCES PER PLANT:                                  1.4
AVERAGE NUMBER OF POLLUTANTS PER POINT SOURCE:                              4.7
AVERAGE NUMBER OF MACHINE PROCESSES PER POINT SOURCE:                       0.7
AVERAGE NUMBER OF POLLUTANTS PER MACHINE PROCESS:                           4.1
AVERAGE NUMBER OF PERMITS & REGISTRATION SEGMENTS PER POINT SOURCE:         0.0

TOTAL NUMBER OF RECORDS READ:                                                95
NUMBER OF ERRORS DETECTED:                                                    0
NUMBER OF PAGES IN REPORT:                                                   18
```

Figure PST26-2 - continued. Sample Output (Page 3 of 6)

```
                                              EIS/PS MASTER FILE DUMP                                             PAGE     1

------------------------------------------------------------------------------------------------------------------------------
PLANT #     1                                                                   KEY=06196005300000001000000000000000000000292
ST/CD=06 CY/CD=1960 AQCR/#=053 PL/ID=0001 DT=80065 USR/CNTL/RG=123 LCL/CNTL=04 USR/PL/ID=PL-3175      CTY=0012 UTM/ZN=12 OWNSHP=P
CNTCT=FRANKE SMYTHE   PHN=5919544376 NM/ADDR=SMYTHE ENGINE COMPANY INC.                          PRD=9ENGINES   EMP=0025 AREA=000035
MLG/ADDR=RED OAKE, COLORADO                                  P1/FL=S P7/CMTS=PLANT WILL START PRODUCITON 05/01/80
P7/FL=S EIS FLAGS:  1=S 2=S 3=S 4=S
------------------------------------------------------------------------------------------------------------------------------
   POINT SOURCE  01                                                             KEY=06196005300000001000110000000000000000399
    SEG/DT=80001 USR/PT/ID=011 SIC/CD=1141 IPP/CD=21 UTM/HORZ=2454 UTM/VERT=09555 LAT=712121 LNG=0515152 THRPT=02030301
    NRML/OPER=10547 BOLR/CAPC=00137 SPC/HT=097 STCK/HGHT=0090 STCK/DIAM=010 STCK/TMP=0100 FLW/RT=0000123 VLOCTY=00150 PLM/HGHT=0900
    PTS/CM/STK=       COMPLCE/STAT=2 COMPLCE/SCH=8110 COMPLCE/UPD=791215 ECAP=1 CNTRL/REGLL=  44  15  17 P2-P5/FLGS=SSSS PMCS/FL=
    P7/CMTS=POLL 43101 ADDED 03/21/80                               P7/FL=S EIS FLAGS:  11=S 12=S 14=S #/POLL=03
    **  POLL/ID  EQP/CST  PRI/EQP  SEC/EQP  CNTL/EF  EMIS/EST  EMIS/MEAS  ALLOW/EMIS  UNCNTL/EMIS  EM/UTS EST/MT TS/MT EIS/FL/13  **
    **   42101   0000100    022      041      985    0000100   0000200    0000300                  4      3      3      S      **
    **   11101   0000100    022      041      985    0000100   0000200    0000300                  4      3      3      S      **
    **   43101   0102250    022      041      907    0001050   0002100    0003000                  4      3      3      S      **
------------------------------------------------------------------------------------------------------------------------------
       SCC    40300101     SEQ NBR  00                                          KEY=06196005300000001000124030010100000000294
        SEG/DT=80001 BEC=12301 FUEL/UTS=2 FUEL/PRC=0003000 MAX/DESGN=0004000 SUL/CT=578 ASH/CT=023 HEAT/CT=00150 CNFD/DT=1 SC/CD=H
        SC/DSC=ENGINE                    E/F/SC=R P6/FL=S P7/CMTS=SCC LEFT COMMENT P7          SCC RIGHT P7 COMMENT          P7/FL=S
        EIS/FLAGS:  21=S 22=S 24=S 25=S                                                                                      #/E/F=04
        ** POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23            POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23 **
        **  42602   000000000          2                    S                 42101   000000000          1        0000000      S    **
        **  22104   000000230          2                    S                 11101   000000000          1        0000000      S    **
------------------------------------------------------------------------------------------------------------------------------
       SCC    40300102     SEQ NBR  02                                          KEY=06196005300000001000124030010202000000270
        SEG/DT=80065 BEC=12301 FUEL/UTS=2 FUEL/PRC=0003000 MAX/DESGN=0004000 SUL/CT=023 ASH/CT=012 HEAT/CT=00150 CNFD/DT=1 SC/CD=B
        SC/DSC=ENGINE EXHAUST FUMES      E/F/SC=R P6/FL=S P7/CMTS=POLLUTANT 22104 DELETED ON 03/21/80                        P7/FL=S
        EIS/FLAGS:  21=S 22=S 24=S 25=S                                                                                      #/E/F=03
        ** POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23            POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23 **
        **  11101   000000050    A     1        0000000     S                 42602   000000000          2                     S    **
        **  42101   000000080    S     1        0000000     S                                                                       **
------------------------------------------------------------------------------------------------------------------------------
   POINT SOURCE  10                                                             KEY=06196005300000001012710000000000000000346
    SEG/DT=80113 USR/PT/ID=011 SIC/CD=1141 IPP/CD=21 UTM/HORZ=2454 UTM/VERT=09555 LAT=712121 LNG=0515152 THRPT=02030301
    NRML/OPER=10547 BOLR/CAPC=00137 SPC/HT=097 STCK/HGHT=0090 STCK/DIAM=010 STCK/TMP=0100 FLW/RT=0000123 VLOCTY=00151 PLM/HGHT=0900
    PTS/CM/STK=       COMPLCE/STAT=2 COMPLCE/SCH=8110 COMPLCE/UPD=791215 ECAP=1 CNTRL/REGLL=  44  15  17 P2-P5/FLGS=SSSS PMCS/FL=
    P7/CMTS=POINT ADDED 12/14/79                                    P7/FL=S EIS FLAGS:  11=S 12=S 14=S #/POLL=02
    **  POLL/ID  EQP/CST  PRI/EQP  SEC/EQP  CNTL/EF  EMIS/EST  EMIS/MEAS  ALLOW/EMIS  UNCNTL/EMIS  EM/UTS EST/MT TS/MT EIS/FL/13  **
    **   42101   0000100    022      041      985    0000100   0000200    0000300                  4      3      3      S      **
    **   11101   0000100    022      041      985    0000100   0000200    0000300                  4      3      3      S      **
------------------------------------------------------------------------------------------------------------------------------
       SCC    40300101     SEQ NBR  00                                          KEY=06196005300000001012724030010100000000294
        SEG/DT=80113 BEC=12301 FUEL/UTS=2 FUEL/PRC=0003000 MAX/DESGN=0004000 SUL/CT=578 ASH/CT=023 HEAT/CT=00150 CNFD/DT=1 SC/CD=H
        SC/DSC=ENGINE                    E/F/SC=R P6/FL=S P7/CMTS=SCC LEFT COMMENT P7          SCC RIGHT P7 COMMENT          P7/FL=S
        EIS/FLAGS:  21=S 22=S 24=S 25=S                                                                                      #/E/F=04
        ** POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23            POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23 **
        **  11101   000000000          1        0000000     S                 22104   000000230          2                     S    **
        **  42602   000000000          2                    S                 42101   000000000          1        0000000      S    **
```

Figure PST26-2 - continued. Sample Output (Page 4 of 6)

BEST DOCUMENT AVAILABLE

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```
                                              EIS/PS MASTER FILE DUMP                                             PAGE     17

---------------------------------------------------------------------------------------------------------------------------------
   POINT SOURCE  01                                                           KEY=3400040203000000060001100000000000000000505
    SEG/DT=72000 USR/PT/ID=     SIC/CD=      IPP/CD=    UTM/HORZ=3700 UTM/VERT=37820 LAT=        LNG=         THRPT=25252525
    NRML/OPER=24748 BOLR/CAPC=00004 SPC/HT=000 STCK/HGHT=0046 STCK/DIAM=012 STCK/TMP=0250 FLW/RT=          VLOCTY=        PLM/HGHT=0000
    PTS/CM/STK=       COMPLCE/STAT=  COMPLCE/SCH=       COMPLCE/UPD=         ECAP=  CNTRL/REGLL=               P2-P5/FLGS=SSSS PWCS/FL=
    P7/CMTS=                                                    P7/FL=S EIS FLAGS:  11=S 12=S 14=S #/POLL=05
    **  POLL/ID  EQP/CST   PRT/EQP   SEC/EQP   CNTL/EF   EMIS/EST  EMIS/MEAS  ALLOW/EMIS  UNCNTL/EMIS  EM/UTS EST/MT IS/MT EIS/FL/13  **
    **   43101               000       000       000     0000000                                               0              S       **
    **   11101               000       000       000     0000000                                               3              S       **
    **   42101               000       000       000     0000000                                               0              S       **
    **   42602               000       000       000     0000000                                               3              S       **
    **   42401               000       000       000     0000000                                               0              S       **
---------------------------------------------------------------------------------------------------------------------------------
   POINT SOURCE  02                                                           KEY=3400040203000000060002100000000000000000505
    SEG/DT=72000 USR/PT/ID=     SIC/CD=      IPP/CD=    UTM/HORZ=3700 UTM/VERT=37820 LAT=        LNG=         THRPT=25252525
    NRML/OPER=24748 BOLR/CAPC=00002 SPC/HT=000 STCK/HGHT=0046 STCK/DIAM=012 STCK/TMP=0250 FLW/RT=          VLOCTY=        PLM/HGHT=0000
    PTS/CM/STK=       COMPLCE/STAT=4 COMPLCE/SCH=       COMPLCE/UPD=         ECAP=  CNTRL/REGLL=               P2-P5/FLGS=SSSS PWCS/FL=
    P7/CMTS=                                                    P7/FL=S EIS FLAGS:  11=S 12=S 14=S #/POLL=05
    **  POLL/ID  EQP/CST   PRT/EQP   SEC/EQP   CNTL/EF   EMIS/EST  EMIS/MEAS  ALLOW/EMIS  UNCNTL/EMIS  EM/UTS EST/MT IS/MT EIS/FL/13  **
    **   42602               000       000       000     0000001               0000017     0000001           3              S       **
    **   11101               000       000       000     0000000               0000004                       3              S       **
    **   42101               000       000       000     0000000               9999999                       0              S       **
    **   43101               000       000       000     0000000               9999999                       0              S       **
    **   42401               000       000       000     0000000               9999999                       0              S       **
---------------------------------------------------------------------------------------------------------------------------------
   POINT SOURCE  03                                                           KEY=3400040203000000060003100000000000000000505
    SEG/DT=72000 USR/PT/ID=     SIC/CD=      IPP/CD=    UTM/HORZ=3700 UTM/VERT=37820 LAT=        LNG=         THRPT=25252525
    NRML/OPER=24748 BOLR/CAPC=00001 SPC/HT=000 STCK/HGHT=0046 STCK/DIAM=012 STCK/TMP=0250 FLW/RT=          VLOCTY=        PLM/HGHT=0000
    PTS/CM/STK=       COMPLCE/STAT=2 COMPLCE/SCH=8101 COMPLCE/UPD=          ECAP=  CNTRL/REGLL=               P2-P5/FLGS=SSSS PWCS/FL=
    P7/CMTS=                                                    P7/FL=S EIS FLAGS:  11=S 12=S 14=S #/POLL=05
    **  POLL/ID  EQP/CST   PRT/EQP   SEC/EQP   CNTL/EF   EMIS/EST  EMIS/MEAS  ALLOW/EMIS  UNCNTL/EMIS  EM/UTS EST/MT IS/MT EIS/FL/13  **
    **   43101               000       000       000     0000000               9999999                       0              S       **
    **   42101               000       000       000     0000000               9999999                       0              S       **
    **   11101               000       000       000     0000000               0000004                       3              S       **
    **   42602               000       000       000     0000001               0000014     0000001           3              S       **
    **   42401               000       000       000     0000000               9999999                       0              S       **
---------------------------------------------------------------------------------------------------------------------------------
 PLANT #     25                                                               KEY=3400040203000000070000000000000000000000292
 ST/CD=34 CY/CD=0040 AQCR/#=203 PL/ID=0007 DT=M0000 USR/CNTL/RG=      LCL/CNTL=    USR/PL/ID=              CTY=       UTM/ZN=17 OWNSHP=
 CNTCT=HOWELL            PHN=                 NM/ADDR=HUGGINS GARMENT CO EUGENE IND DONALDS              PHN=             EMP=       AREA=
 MLG/ADDR=                                                     P1/FL=S P7/CMTS=
 P7/FL=S EIS FLAGS:  1=S 2=S 3=S 4=S
```

Figure PST26-2 - continued. Sample Output (Page 5 of 6)

```
                                                    EIS/PS MASTER FILE DUMP                                             PAGE    18

----------------------------------------------------------------------------------------------------------------------------------
   POINT SOURCE  01                                                               KEY=3400402030000000700011000000000000000505
    SEG/DT=72000 USR/PT/ID=    SIC/CD=2321 IPP/CD=00 UTM/HORZ=3640 UTM/VERT=38060 LAT=       LNG=        THRPT=25252525
    NRML/OPER=08550 BOLR/CAPC=00003 SPC/HT=000 STCK/HGHT=0032 STCK/DIAM=015 STCK/TMP=      FLW/RT=        VLOCTY=       PLM/HGHT=0000
    PTS/CM/STK=      COMPLCE/STAT=3 COMPLCE/SCH=8001 COMPLCE/UPD=        ECAP=  CNTRL/REGLL=              P2-P5/FLGS=SSSS PMCS/FL=
    P7/CMTS=                                                      P7/FL=S EIS FLAGS:  11=S 12=S 14=S #/POLL=05
    **  POLL/ID  EQP/CST  PRI/EQP  SEC/EQP  CNTL/EF  EMIS/EST  EMIS/MEAS  ALLOW/EMIS  UNCNTL/EMIS  EM/UTS EST/MT IS/MT EIS/FL/13  **
    **   42401              000      000      000    0000000              9999999                        0             S      **
    **   42101              000      000      000    0000000              9999999                        0             S      **
    **   43101              000      000      000    0000000              9999999                        0             S      **
    **   11101              000      000      000    0000000              0000001                        3             S      **
    **   42602              000      000      000    0000000              0000002                        3             S      **
----------------------------------------------------------------------------------------------------------------------------------
 PLANT #    26                                                                    KEY=3400402030000000800000000000000000000292
 ST/CD=34 CY/CD=0040 AQCR/#=203 PL/ID=0008 DT=80000 USR/CNTL/RG=    LCL/CNTL=  USR/PL/ID=              CTY=     UTM/ZN=17 OWNSHP=
 CNTCT=BILLY SMITH      PHN=              NM/ADDR=GENERSBURG MILLS BOX 579 TATEVILLE 29620         PRD=             EMP=     AREA=
 MLG/ADDR=                                                       P1/FL=S P7/CMTS=
 P7/FL=S EIS FLAGS:  1=S 2=S 3=S 4=S
----------------------------------------------------------------------------------------------------------------------------------
   POINT SOURCE  01                                                               KEY=3400402030000000800011000000000000000505
    SEG/DT=73000 USR/PT/ID=    SIC/CD=2221 IPP/CD=00 UTM/HORZ=3710 UTM/VERT=37820 LAT=       LNG=        THRPT=25252525
    NRML/OPER=24550 BOLR/CAPC=00005 SPC/HT=000 STCK/HGHT=0025 STCK/DIAM=015 STCK/TMP=0270 FLW/RT=         VLOCTY=       PLM/HGHT=0000
    PTS/CM/STK=      COMPLCE/STAT=4 COMPLCE/SCH=      COMPLCE/UPD=        ECAP=  CNTRL/REGLL=              P2-P5/FLGS=SSSS PMCS/FL=
    P7/CMTS=                                                      P7/FL=S EIS FLAGS:  11=S 12=S 14=S #/POLL=05
    **  POLL/ID  EQP/CST  PRI/EQP  SEC/EQP  CNTL/EF  EMIS/EST  EMIS/MEAS  ALLOW/EMIS  UNCNTL/EMIS  EM/UTS EST/MT IS/MT EIS/FL/13  **
    **   42101              000      000      000    0000000              9999999                        0             S      **
    **   43101              000      000      000    0000000              9999999                        0             S      **
    **   42401              000      000      000    0000000              9999999                        0             S      **
    **   42602              000      000      000    0000001              0000005                        3             S      **
    **   11101              000      000      000    0000000              0000001                        3             S      **
----------------------------------------------------------------------------------------------------------------------------------
 PLANT #    27                                                                    KEY=3400800530000000100000000000000000000292
 ST/CD=34 CY/CD=0080 AQCR/#=053 PL/ID=0001 DT=72000 USR/CNTL/RG=    LCL/CNTL=  USR/PL/ID=              CTY=     UTM/ZN=17 OWNSHP=
 CNTCT=MR  MCKEOWN      PHN=              NM/ADDR=GRCNITEVILLE CO STEVENS STECM STCTION             PRD=             EMP=     AREA=
 MLG/ADDR=                                                       P1/FL=S P7/CMTS=
 P7/FL=S EIS FLAGS:  1=S 2=S 3=S 4=S
----------------------------------------------------------------------------------------------------------------------------------
   POINT SOURCE  01                                                               KEY=3400800530000000100011000000000000000505
    SEG/DT=72000 USR/PT/ID=    SIC/CD=4961 IPP/CD=00 UTM/HORZ=3452 UTM/VERT=37192 LAT=       LNG=        THRPT=
    NRML/OPER=        BOLR/CAPC=00080 SPC/HT=     STCK/HGHT=0100 STCK/DIAM=050 STCK/TMP=0550 FLW/RT=0029460 VLOCTY=       PLM/HGHT=0000
    PTS/CM/STK=      COMPLCE/STAT=  COMPLCE/SCH=      COMPLCE/UPD=        ECAP=  CNTRL/REGLL=              P2-P5/FLGS=SSSS PMCS/FL=
    P7/CMTS=                                                      P7/FL=S EIS FLAGS:  11=S 12=S 14=S #/POLL=05
    **  POLL/ID  EQP/CST  PRI/EQP  SEC/EQP  CNTL/EF  EMIS/EST  EMIS/MEAS  ALLOW/EMIS  UNCNTL/EMIS  EM/UTS EST/MT IS/MT EIS/FL/13  **
    **   42401              000      000      000                                                                  S      **
    **   43101              000      000      000                                                                  S      **
    **   42101              000      000      000                                                                  S      **
    **   11101              000      000      000                                                                  S      **
    **   42602              000      000      000                                                                  S      **

--------------------------------------------------- END OF FILE LISTING ----------------------------------------------------------
```

Figure PST26-2 - continued. Sample Output (Page 6 of 6)

EIS/PS Test 27 - Ad Hoc

Retrieve Data from the Master File and Produce Two Quick Look Reports

In this test run, an answer file is produced using the cataloged procedure EPRTM30 which executes PRTLNGP (EP0140), the retrieval language processor program; the COBOL compiler; the linkage editor; and PRTGENR (EP0150), the generated retrieval program. Two quick look reports are produced from the answer file using the cataloged procedure EPRPM60 which executes PRTQLED (EP0260), the quick edit program; PRTQLEX (EP0270), the quick look extract program; and PRPQUIK (EP0280), the quick look report program.

There are two sets of control cards used in this test run (see Figure PST27-1). One set consists of the EIS/PS retrieval language cards input to PRTLNGP (EP0140). The second set consists of quick look control cards input to PRTQLED (EP0260). The retrieval language cards (see Figure PST27-1) specify that all master file data (except comment records) associated with a plant record that has an ownership code of 'F' or 'S' should be retrieved. Therefore, the answer file will contain the qualifying plant records and all point and SCC records that are subordinate to these plant records. No comment records are retrieved.

The quick look control cards specify that two reports are to be printed. The 10 card is present to fulfill the requirement of having at least one 10 card. The 20 card specifies that the quick look report option has been selected. The 30 card specifies that all qualifying records are to be sorted according to ownership code. Since ownership code is a plant record data element, all point and SCC records associated with a plant record will be sorted according to the ownership code of that plant record. The 40 card contains data element abbreviations from plant and point records, therefore, only plant and point data will appear in the report. Hence, the first report will contain one line of data for each selected point record. The 41 card contains data elements from plant, point, and SCC records, therefore, the report will contain data from all three types of records. However, there will be only one line of data listed for each selected SCC record.

The user should note that the total number of quick look lines is equal to the total number of answer file records minus the number of plant records contained in the answer file.

See EIS/PS Test 10 for a discussion of the retrieval package and EIS/PS Test 23 for a discussion of the quick look package.

The run stream for this test run contains the JCL needed to execute both the retrieval and quick look packages. This run stream is shown in Figure PST27-1.

Substitutable parameters are used when executing EPRTM30 to supply the names of the master file input and the answer file output for PRTGENR (EP0150). The names of these files are EPMSTR6 and EPANSR6, respectively. A substitutable parameter is also used when executing EPRPM60 to supply EPANSR6 as the name of the master file input to PRTQLEX (EP0270). The DD (data definition) information for the retrieval language cards input to PRTLNGP (EP0140) and the quick look control cards input to PRTQLED (EP0260) is also supplied. Sample output produced by this run stream is shown in Figure PST27-2.

```
//PSTEST27 JOB     (ACCOUNTING INFO)
//*
//*    PERFORM A NORMAL RETRIEVAL;  THEN PRODUCE A QUICK LOOK
//*    REPORT FOR THE ANSWER FILE
//*
//TEST27A EXEC EPRT430,
//       MSTRFIL=EPMSTR6,
//       ANSRFIL=EPANSR6
//*
//COMPILE.INPUT DD *
$$SELECT
OWNER                                = 'F'                              OR
OWNER                                = 'S'
$$END
//TEST27B EXEC EPRP460,
//       MSTRFIL=EPANSR6,
//       ANSRFIL=EPQUIK1
//*
//*  PRODUCE TWO QUICK LOOK REPORTS FOR ALL THE RECORDS
//*  IN THE ANSWER FILE FROM STEP A
//*
//EDIT.INPUT DD *
$$SELECT   REPORTS FOR FEDERAL AND STATE OWNED PLANTS
10   STTE P
20 WL
30 OWNSX
40   STTE  CNTY  PLNT  OWNR  NPID  ECAP  REG1  REG2  REG3
41   STTE  CNTY  PLNT  OWNS  NPID  SCCC  SSUN  FPRT  FUNT  SRCD
$$END
```

Figure PST27-1. Run Stream

```
                    EIS/PS RETRIEVAL LANGUAGE PROCESSOR  -  DIAGNOSTIC MESSAGES                PAGE     1


PROGRAM NAME: PRTLNGP (EP0140)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


INPUT (CONTROL CARDS)

$$SELECT

OWNER                         = 'F'                          OR

OWNER                         = 'S'

$$END


NUMBER OF CONTROL CARDS READ:        4
NUMBER OF ERRORS DETECTED:           0
```

```
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
                    EIS/PS GENERATED RETRIEVAL PROGRAM  -  DIAGNOSTIC REPORT                   PAGE     1


PROGRAM NAME: PRTGENR (EP0150)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF MASTER FILE RECORDS READ:        164
NUMBER OF ANSWER FILE RECORDS WRITTEN:      33
NUMBER OF ERRORS DETECTED:                   0
```

Figure PST27-2. Sample Output

(Page 1 of 5)

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```
..........................................................................................................................
                                     EIS/PS QUICK LOOK EDIT PROGRAM  -  DIAGNOSTIC REPORT                        PAGE   1
..........................................................................................................................
PROGRAM NAME: PRTULED (EP0260)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
..........................................................................................................................
TITLE    REPORTS FOR FEDERAL AND STATE OWNED PLANTS
..........................................................................................................................


SELECTION CRITERIA

10   STIE P


REPORT FORMATS

20 QL


REPORT SEQUENCE

30 OWNSX
     OWNER                         PAGE BREAK/SUBTOTAL


QUICK LOOK DATA ELEMENTS - REPORT ONE

40   STIE  CNTY  PLNT  OWNS  NPID  ECAP  REG1  REG2  REG3
     STATE
     COUNTY
     PLANT ID
     OWNER
     NEDS POINT ID
     ECAP
     CONTROL REGULATION 1
     CONTROL REGULATION 2
     CONTROL REGULATION 3


QUICK LOOK DATA ELEMENTS - REPORT TWO

41   STIE  CNTY  PLNT  OWNS  NPID  SCCC  SSUN  FPRT  FUNT  SRCD
     STATE
     COUNTY
     PLANT ID
     OWNER
     NEDS POINT ID
```

Figure PST27-2 - continued. Sample Output
(Page 2 of 5)

```
.....................................................................................................................................
                                          EIS/PS QUICK LOOK EDIT PROGRAM  -  DIAGNOSTIC REPORT                          PAGE   2
.....................................................................................................................................
TITLE    REPORTS FOR FEDERAL AND STATE OWNED PLANTS
.....................................................................................................................................

    SCC CODE
    SCC SEQUENCE NUMBER
    FUEL PROCESS RATE
    FUEL UNITS
    SOURCE DESCRIPTION
```

```
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
                          EIS/PS QUICK LOOK EXTRACT PROGRAM  -  DIAGNOSTIC REPORT                                  PAGE    1

PROGRAM NAME: PRTQLEX (EP0270)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF EIS/PS MASTER FILE RECORDS READ:              33
NUMBER OF QUICK LOOK REPORT RECORDS WRITTEN:            30
NUMBER OF TURNAROUND DOCUMENT RECORDS WRITTEN:           0
NUMBER OF ANSWER FILE RECORDS WRITTEN:                   0
```

Figure PST27-2 - continued. Sample Output
(Page 3 of 5)

```
......................................................................................................
......................................................................................................
                                        EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM
  REPORTS FOR FEDERAL AND STATE OWNED PLANTS
......................................................................................................
STTE CNTY PLNT OWNS NPID ECAP REG1 REG2 REG3                                              PAGE    1
......................................................................................................
18   0040 0005 F     01
18   0040 0005 F     02
18   0040 0005 F     03
18   0040 0005 F     04
18   0040 0005 F     05
18   0040 0005 F     06
18   0040 0005 F     07
NUMBER OF RECORDS IN THIS OWNS IS       7
```

```
......................................................................................................
......................................................................................................
                                        EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM
  REPORTS FOR FEDERAL AND STATE OWNED PLANTS
......................................................................................................
STTE CNTY PLNT OWNS NPID ECAP REG1 REG2 REG3                                              PAGE    2
......................................................................................................
08   0080 8003 S     01    1
08   0080 8003 S     02    1
08   0080 8003 S     03    1
08   0080 8003 S     04    1
18   0060 0003 S     01
18   0060 0003 S     02
18   0060 0003 S     03    1
18   0060 0003 S     04
NUMBER OF RECORDS IN THIS OWNS IS       8

TOTAL NUMBER OF QUICK LOOK LINES EQUALS        15
```

Figure PST27-2 - continued. Sample Output
(Page 4 of 5)

```
..................................................................................................................................
                                        EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM                            PAGE    1
..................................................................................................................................
  REPORTS FOR FEDERAL AND STATE OWNED PLANTS
..................................................................................................................................
STTE CNTY PLNT OWNS NPID SCC       SSON FU-P-RT FUNT SOURCE-DESCRIPTION
..................................................................................................................................
18    0040 0005 F     01    10300402 00     0000241        #6 OIL FIRED BOILER
18    0040 0005 F     02    10300402 00     0000314        NO 6 OIL FIRED BOILE
18    0040 0005 F     03    10300402 00     0000231        NO 6 OIL FIRED BOILE
18    0040 0005 F     04    10300402 00     0000031        NO 2 OIL FIRED BOILE
18    0040 0005 F     05    10300503 00     0000169        NO 2 OIL FIRED BOILE
18    0040 0005 F     06    40300107 00     0000240        NO 2 OIL UNLOADING
18    0040 0005 F     07    40300105 00     0000050        JET FUEL UNLOADING
NUMBER OF RECORDS IN THIS OWNS IS          7
```

```
..................................................................................................................................
                                        EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM                            PAGE    2
..................................................................................................................................
  REPORTS FOR FEDERAL AND STATE OWNED PLANTS
..................................................................................................................................
STTE CNTY PLNT OWNS NPID SCC       SSON FU-F-RT FUNT SOURCE-DESCRIPTION
..................................................................................................................................
08    0080 8003 S     01    10200082 00     0013970                  BAGASSE
08    0080 8003 S     02    10200082 00     0013970        BAGASSE
08    0080 8003 S     03    10200082 00     0013970        BAGASSE
08    0080 8003 S     04    10200081 00     0065090        BAGASSE
18    0060 0003 S     01    10300209 00     0003794        COAL FIRED BOILER
18    0060 0003 S     02    10300209 00     0001676        COAL FIRED BOILER
18    0060 0003 S     03    10300209 00     0006982         COAL FIRED BOILER
18    0060 0003 S     04    10300402 00     0000218        NAT GAS FIRED BOILER
NUMBER OF RECORDS IN THIS OWNS IS          8

TOTAL NUMBER OF QUICK LOOK LINES EQUALS          15
```

Figure PST27-2 - continued. Sample Output
(Page 5 of 5)

EIS/PS Test 28 - Ad Hoc

Execute an EIS/PS Language Retrieval and Produce a Formatted Dump of the Answer File

In this test run, an answer file is produced using the cataloged procedure EPRTM30 which executes PRTLNGP (EP0140), the retrieval language processor program; the COBOL compiler; the linkage editor; and PRTGENR (EP0150), the generated retrieval program. The answer file produced by this procedure is listed in a formatted dump using the cataloged procedure EPRPM30 which executes PRPDUMP (EP0220), the master file formatted dump program.

The retrieval control cards input to PRTLNGP (EP0140) are coded using EIS/PS retrieval language. The cards shown in Figure PST28-1 specify that all comment records associated with state 06, county 1960, and AQCR 053 are to be retrieved. All plant and point records to which the comment records are subordinate will be retrieved as well as all SCC records which are subordinate to a retrieved point record. The answer file containing these records will be listed in a formatted dump by PRPDUMP (EP0220). See EIS/PS Test 10 for a discussion of the retrieval package and EIS/PS Test 5 for a discussion of PRPDUMP (EP0220).

The run stream for this test run contains the JCL needed to produce an answer file and list it in a formatted dump. This run stream is shown in Figure PST28-1.

Substitutable parameters are used when executing EPRTM30 to supply the names of the master file input and the answer file output for PRTGENR (EP0150). The names of these files are EPMSTR6 and EPANSR7, respectively. A substitutable parameter is used when executing EPRPM30 to supply EPANSR7 as the name of the master file input to PRPDUMP (EP0220). The DD (data definition) information for the retrieval control cards is also supplied. Sample output produced by this run stream is shown in Figure PST28-2.

```
//PSTEST28 JOB    (ACCOUNTING INFO)
//*       .
//*   RETRIEVE ALL INFORMATION FOR POINTS IN A CERTAIN
//*   COUNTY THAT HAVE COMMENT RECORDS;  DUMP THE ANSWER
//*   FILE
//*
//TEST28A EXEC EPRTM30,
//        MSTRFIL=EPMSTR6,
//        ANSWRFL=EPANSR7
//*
//*   RETRIEVE FROM THE RECORDS IN STATE 06, COUNTY 1960, AND
//*   AQCR 53;  LIMIT THE RETRIEVAL TO THOSE POINTS IN THE
//*   COUNTY THAT HAVE COMMENT RECORDS
//*
//COMPILE.INPUT DD *
$$SELECT
STATE                              = '06'                             AND
COUNTY                             = '1960'                           AND
AQCR                               = '053'                            AND
LINE-NUMBER                        = LINE-NUMBER
$$END
//TEST28B EXEC EPRPM30,
//        MSTRFIL=EPANSR7
//*
//*   PRODUCE A FORMATTED DUMP OF THE ANSWER FILE
//*   FROM STEP A
//*
```

Figure PST28-1. Run Stream

```
          EIS/PS RETRIEVAL LANGUAGE PROCESSOR  -  DIAGNOSTIC MESSAGES                    PAGE     1

PROGRAM NAME: PRTLNGP (EP0140)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


INPUT (CONTROL CARDS)

$$SELECT

STATE                             = '06'                       AND

COUNTY                            = '1960'                     AND

AQCH                              = '053'                      AND

LINE-NUMBER                       = LINE-NUMBER

$$END


NUMBER OF CONTROL CARDS READ:         6
NUMBER OF ERRORS DETECTED:            0
```

Figure PST28-2. Sample Output (Page 1 of 5)

```
                    ETS/PS GENERATED RETRIEVAL PROGRAM  -  DIAGNOSTIC REPORT
                                                                                PAGE     1


PROGRAM NAME: PRTGENR (EP0150)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF MASTER FILE RECORDS READ:          169
NUMBER OF ANSWER FILE RECORDS WRITTEN:        40
NUMBER OF ERRORS DETECTED:                     0
```

Figure PST28-2 - continued. Sample Output (Page 2 of 5)

```
                        EIS/PS MASTER FILE FORMATTED DUMP PROGRAM - DIAGNOSTIC REPORT                     PAGE     1

PROGRAM NAME: PRPDUMP (EP0220)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


PLANT (SEGMENT 0) RECORD COUNT:                                                    2
POINT SOURCE (SEGMENT 1) RECORD COUNT:                                             4
POINT SOURCE POLLUTANT COUNT:                                                      8
MACHINE PROCESS (SEGMENT 2) RECORD COUNT:                                         21
MACHINE PROCESS POLLUTANT COUNT:                                                  84
PERMITS & REGISTRATION (SEGMENT 3) RECORD COUNT:                                   6

AVERAGE NUMBER OF POINT SOURCES PER PLANT:                                       2.0
AVERAGE NUMBER OF POLLUTANTS PER POINT SOURCE:                                   2.0
AVERAGE NUMBER OF MACHINE PROCESSES PER POINT SOURCE:                            5.3
AVERAGE NUMBER OF POLLUTANTS PER MACHINE PROCESS:                                4.0
AVERAGE NUMBER OF PERMITS & REGISTRATION SEGMENTS PER POINT SOURCE:              1.5

TOTAL NUMBER OF RECORDS READ:                                                     40
NUMBER OF ERRORS DETECTED:                                                         0
NUMBER OF PAGES IN REPORT:                                                         6
```

Figure PST28-2 - continued. Sample Output
(Page 3 of 5)

```
                                        FIS/PS MASTER FILE DUMP                                                    PAGE      1

------------------------------------------------------------------------------------------------------------------------------------
PLANT #      1                                                                       KEY=06196005300000001000000000000000000000292
ST/CD=06 CY/CD=1960 ANCH/#=053 PL/ID=0001 DT=80065 USR/CNTL/RG=123 LCL/CNTL=04 USR/PL/ID=PL-3175       CTY=0012 UTM/ZN=12 OWNSHP=P
CNTCT=FRANKE SMYTHE    PHN=5919540376 NM/ADDR=SMITHE ENGINE COMPANY INC.                            PRD=9ENGINES   EMP=0025 AREA=000035
MLG/ADDR=RED OAKE, COLORADO                                P1/FL=S P7/CMTS=PLANT WILL START PRODUCTION 05/01/80
P7/FL=S EIS FLAGS:  1=S 2=S 3=S 4=S
------------------------------------------------------------------------------------------------------------------------------------
   POINT SOURCE  01                                                                  KEY=06196005300000001000110000000000000000399
    SEG/DT=80001 USR/PT/ID=011 SIC/CD=1141 IPP/CD=21 UTM/HORZ=2454 UTM/VERT=09555 LAT=712121 LNG=0515152 THRPT=02030301
    NRML/OPER=10547 BOLR/CAPC=00137 SPC/HT=097 STCK/HGHT=0090 STCK/DIAM=010 STCK/TMP=0100 FLW/RT=0000123 VLOCTY=00150 PLM/HGHT=0900
    PTS/CM/STR=       COMPLCE/STAT=2 COMPLCE/SCH=8110 COMPLCE/UPD=791215 ECAP=1 CNTRL/REGUL=  44  15  17 P2-PS/FLGS=SSSS PRCS/FL=
    P7/CMTS=POLL 43101 ADDED 03/21/80                               P7/FL=S EIS FLAGS:  11=S 12=S 14=S #/POLL=03
    **  POLL/ID  EQP/CST  PRI/EQP  SEC/EQP  CNTL/EF  EMIS/EST  EMIS/MEAS  ALLOW/EMIS  UNCNTL/EMIS  EM/UTS EST/MT TS/MT EIS/FL/13  **
    **   42101   0000100    022      041      985    0000100    0000200    0000300                   4      3      3       S      **
    **   11101   0000100    022      041      965    0000100    0000200    0000300                   4      3      3       S      **
    **   43101   0102250    022      041      907    0001050    0002100    0003000                   4      3      3       S      **
------------------------------------------------------------------------------------------------------------------------------------
        SCC   40300101    SEQ NBR  00                                                KEY=06196005300000001000124030010100000000294
         SEG/DT=80001 BFC=12301 FUEL/UTS=2 FUEL/PRC=0003000 MAX/DESGN=0004000 SUL/CT=578 ASH/CT=023 HEAT/CT=00150 CNFD/DT=1 SC/CD=B
         SC/DSC=ENGINE                        E/F/SC=8 P6/FL=S P7/CMTS=SCC LEFT COMMENT P7        SCC RIGHT P7 COMMENT         P7/FL=S
         EIS/FLAGS:  21=S 22=S 24=S 25=S                                                                                      #/E/F=04
         ** POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23             POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23 **
         **  42602   000000000          2                    S                  42101   000000000          1       0000000     S      **
         **  22104   000000230          2                    S                  11101   000000000          1       0000000     S      **
------------------------------------------------------------------------------------------------------------------------------------
        SCC   40300102    SEQ NBR  02                                                KEY=06196005300000001000124030010202000000270
         SEG/DT=80065 BFC=12301 FUEL/UTS=2 FUEL/PRC=0003000 MAX/DESGN=0004000 SUL/CT=023 ASH/CT=012 HEAT/CT=00150 CNFD/DT=1 SC/CD=B
         SC/DSC=ENGINE EXHAUST FUMES          E/F/SC=B P6/FL=S P7/CMTS=POLLUTANT 22104 DELETED ON 03/21/80                     P7/FL=S
         EIS/FLAGS:  21=S 22=S 24=S 25=S                                                                                      #/E/F=03
         ** POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23             POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23 **
         **  11101   000000050   A      1      0000000       S                  42602   000000000          2                   S      **
         **  42101   000000080   S      1      0000000       S                                                                        **
------------------------------------------------------------------------------------------------------------------------------------
        PERMITS & REGISTRATION 02                                                    KEY=06196005300000001000130000000000020010172
                                                                                                                               EIS **
         **  SEG  LINE                                                                                                        FLAG **
         **  DATE  NBR                                                                                                         30  **
         ** 80065    1   THIS COMMENT ADDED 03/21/80                                                                            S  **
         ** 80065   21   PLANT NOW FOLLOWING GUIDELINES AS SET DOWN 12/14/79  WILL NOT BE CITED FOR VIOLATIONS                  S  **
         ** 80065   22   THIS IS THE END OF THIS COMMENT                                                                        S  **
------------------------------------------------------------------------------------------------------------------------------------
        PERMITS & REGISTRATION 03                                                    KEY=06196005300000001000130000000000030010172
                                                                                                                               EIS **
         **  SEG  LINE                                                                                                        FLAG **
         **  DATE  NBR                                                                                                         30  **
         ** 80066    1   START COMMENT                                                                                          A  **
         ** 80066    2   CONTINUE MONITORING THIS PLANT UNTIL FURTHER NOTICE                                                    A  **
         ** 80066    3   CITE PLANT FOR VIOLATIONS OCCURRING AFTER 03/06/80                                                     A  **
         ** 80066    4   END COMMENT                                                                                            A  **
```

Figure PST28-2 - continued. Sample Output (Page 4 of 5)

```
                                             EIS/PS MASTER FILE DUMP                                                    PAGE     6

-----------------------------------------------------------------------------------------------------------------------------------
    SCC    40202020     SEQ NBR  01                                                       KEY=0619600530000040100022402020200100000246
     SEG/DT=80149 BEC=12301 FUEL/UTS=  FUEL/PRC=0030000 MAX/DESGN=0040000 SUL/CT=     ASH/CT=     HEAT/CT=00250 CNFD/DT=2 SC/CD=P
     SC/DSC=PLANT                              E/F/SC=S P6/FL=S P7/CMTS=                                                    P7/FL=S
     EIS/FLAGS:  21=S 22=S 24=S 25=S                                                                                         #/E/F=02
     ** POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23          POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23 **
     **  80424   000299025                             S                 32601   000327000                             S      **
-----------------------------------------------------------------------------------------------------------------------------------
    SCC    40202020     SEQ NBR  02                                                       KEY=0619600530000040100022402020200200000246
     SEG/DT=80149 BEC=12401 FUEL/UTS=  FUEL/PRC=0004000 MAX/DESGN=0009000 SUL/CT=     ASH/CT=     HEAT/CT=00150 CNFD/DT=2 SC/CD=C
     SC/DSC=PLANT                              E/F/SC=A P6/FL=S P7/CMTS=                                                    P7/FL=S
     EIS/FLAGS:  21=S 22=S 24=S 25=S                                                                                         #/E/F=02
     ** POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23          POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23 **
     **  42602                                         S                 42101                                         S      **
-----------------------------------------------------------------------------------------------------------------------------------
    SCC    40300201     SEQ NBR  02                                                       KEY=0619600530000040100022903002010200000222
     SEG/DT=80023 BEC=12302 FUEL/UTS=3 FUEL/PRC=0004000 MAX/DESGN=0003000 SUL/CT=     ASH/CT=     HEAT/CT=00370 CNFD/DT=1 SC/CD=
     SC/DSC=PLANT                              E/F/SC=F P6/FL=S P7/CMTS=                                                    P7/FL=S
     EIS/FLAGS:  21=S 22=S 24=S 25=S                                                                                         #/E/F=01
     ** POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23          POLL/ID  EMIS/FCTR A/S/CD E/F/UTS APPRT/EMIS EIS/FL/23 **
     **  00000                                         S                                                                      **
-----------------------------------------------------------------------------------------------------------------------------------
    PERMITS & REGISTRATION 02                                                             KEY=0619600530000040100023000000000000020210172
                                                                                                                               EIS **
     **  SEG  LINE                                                                                                            FLAG **
     **  DATE  NBR                                                                                                             30  **
     ** 80023   21  PLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79                                                         S  **

------------------------------------------------- END OF FILE LISTING -------------------------------------------------------------
```

Figure PST28-2 - continued. Sample Output (Page 5 of 5)

EIS/PS Test 29 - Ad Hoc

Execute a COBOL Retrieval Specifying a Copy Member and Produce a Detailed Report of the Answer File

In this test run, a COBOL retrieval is executed using the cataloged procedure EPRTM30 which executes PRTLNGP (EP0140), the retrieval language processor program; the COBOL compiler; the linkage editor; and PRTGENR (EP0150), the generated retrieval program. The answer file produced by this procedure is listed using the cataloged procedure EPRPM20 which executes PRPMSTR (EP0210), the master file detailed report program.

The $$SELECT card of the retrieval control cards input to PRTLNGP (EP0140) contains the name of a copy member that is to be combined with PRTSKEL, the retrieval skeleton program. The name of the copy member is COPYMEM1 and it has been stored in the EIS/PS source library for the purpose of producing this test run. This copy member is not contained in the user's EIS/PS source library. A COBOL copy statement containing the name of the copy member will be inserted into PRTSKEL. The COBOL compiler will include the copy member at that point in the program. The final generated program, PRTGENR (EP0150), will produce an answer file which will be listed by PRPMSTR (EP0210). See EIS/PS Test 10 for a discussion of the retrieval package and EIS/PS Test 9 for a discussion of PRPMSTR (EP0210).

The run stream for this test run contains the JCL needed to execute the retrieval package and list the answer file. This run stream is shown in Figure PST29-1.

Substitutable parameters are used when executing EPRPM30 to supply the COBOL compiler options, the name of the master file input to PRTGENR (EP0150), and the name of the answer file output from PRTGENR (EP0150). The names of the files are EPMSTR6 and EPANSR8, respectively. The COBOL compiler options are 'SIZE=124K,BUF=30K,NOSEQ,SUPMAP,SOURCE'. These options may vary depending upon the installation.

A substitutable parameter is also used when executing EPRPM20 to supply EPANSR8 as the name of the master file input to PRPMSTR (EP0210). The DD (data definition) information for the retrieval control cards is also supplied.

The page of the compiler listing which contains the COBOL copy member is exhibited in Figure PST29-2. Sample output produced by this test run is shown in Figure PST29-3.

BEST DOCUMENT AVAILABLE

```
//PSTEST29 JOB    (ACCOUNTING INFO)
//*
//*  RETRIEVE RECORDS USING A COPY MEMBER TO
//*  SUPPLY THE RETRIEVAL SPECIFICATIONS;
//*  PRODUCE A DETAILED LIST OF THE ANSWER FILE
//*
//TEST29A EXEC EPRTM30,
//       PARAM='SIZE=124K,BUF=30K,NOSEQ,SUPMAP,SOURCE',
//       MSTRFIL=EPMSTR6,
//       ANSWRFL=EPANSW8
//*
//*   ACCESS THE COPY MEMBER, COPYMEM1, TO
//*   GET RETRIEVAL SPECIFICATIONS
//*
//COMPILE.INPUT DD *
*$SELECT USER  COPYMEM1
$$END
//     DD DSN=SYS2.COB4LIB,DISP=SHR
//TEST29B EXEC EPRP420,
//       MSTRFIL=EPANSW8
//*
//*   PROVIDE A DETAILED REPORT FOR THE ANSWER FILE PRODUCED IN
//*   STEP A
//*
```

Figure PST29-1. Run Stream

```
00967              MOVE PRINT-DATA TO PRINT-SAVE.                              00096700
00968              PERFORM PRINT-HEADER THRU PRINT-HEADER-END                  00096800
00969                  VARYING HDR-SUB FROM BINARY-1 BY BINARY-1               00096900
00970                  UNTIL HDR-SUB IS GREATER THAN NBR-OF-HDRS.              00097000
00971              MOVE BINARY-3 TO LINE-SKIP.                                 00097100
00972              MOVE PRINT-SAVE TO PRINT-DATA.                              00097200
00973            HEADER-ROUTINE-END.                                           00097300
00974              EXIT.                                                       00097400
00975                                                                          00097500
00976                                                                          00097600
00977                                                                          00097700
00978            PRINT-HEADER.                                                 00097800
00979              MOVE LINES-SKIPPED (HDR-SUB) TO LINE-SKIP.                  00097900
00980              IF LINE-SKIP IS EQUAL TO NEW-PAGE                           00098000
00981                MOVE PAGE-NO TO PAGE-NUMBER                               00098100
00982                ADD BINARY-1 TO PAGE-NO                                   00098200
00983                MOVE HEADER (HDR-SUB) TO PRINT-DATA                       00098300
00984                WRITE PRINT-LINE                                          00098400
00985                    AFTER ADVANCING TO-NEW-PAGE                           00098500
00986                MOVE BINARY-1 TO LINE-CTR                                 00098600
00987              ELSE                                                        00098700
00988                MOVE HEADER (HDR-SUB) TO PRINT-DATA                       00098800
00989                WRITE PRINT-LINE                                          00098900
00990                    AFTER ADVANCING LINE-SKIP LINES                       00099000
00991                ADD LINE-SKIP TO LINE-CTR.                                00099100
00992            PRINT-HEADER-END.                                             00099200
00993              EXIT.                                                       00099300
00994                                                                          00099400
00995                                                                          00099500
00996                                                                          00099600
00997           QUALIFICATION SECTION.                                         00099700
00998              COPY COPYMEM1.
00999 C          QUALIFY-RECORDS.
01000 C            IF ESTABLISHMENT IS NOT EQUAL TO SPACES OR
01001 C               MAILING-ADDRESS IS NOT EQUAL TO SPACES OR
01002 C               COMMENTS IS NOT EQUAL TO SPACES
01003 C                 MOVE TRUE TO QUALIFICATION-ACHIEVED-SW.
01004 C          QUALIFY-RECORDS-END.
01005 C            EXIT.
01006 C
01007 C        SET-QUALIFICATION-LEVEL SECTION.
01008 C          SET-QUAL-LEVEL.
01009 C            MOVE REQUIRE-3-QUAL TO QUALIFICATION-REQUIRED.
01010 C          SET-QUAL-LEVEL-END.
01011 C            EXIT.
```

Figure PST29-2. Source Listing Page Containing Copy Member

3/5

```
                    EIS/PS RETRIEVAL LANGUAGE PROCESSOR  -  DIAGNOSTIC MESSAGES                    PAGE     1

PROGRAM NAME: PRTLNGP (EP0140)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


INPUT (CONTROL CARDS)

$$SELECT USER  COPYMENT

$$END


NUMBER OF CONTROL CARDS READ:        2
NUMBER OF ERRORS DETECTED:           0
```

```
------------------------------------------------------------------------------------------
```

```
                    EIS/PS GENERATED RETRIEVAL PROGRAM  -  DIAGNOSTIC REPORT                    PAGE     1


PROGRAM NAME: PRTGENR (EP0150)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF MASTER FILE RECORDS READ:        169
NUMBER OF ANSWER FILE RECORDS WRITTEN:      49
NUMBER OF ERRORS DETECTED:                   0
```

Figure PST29-3. Sample Output

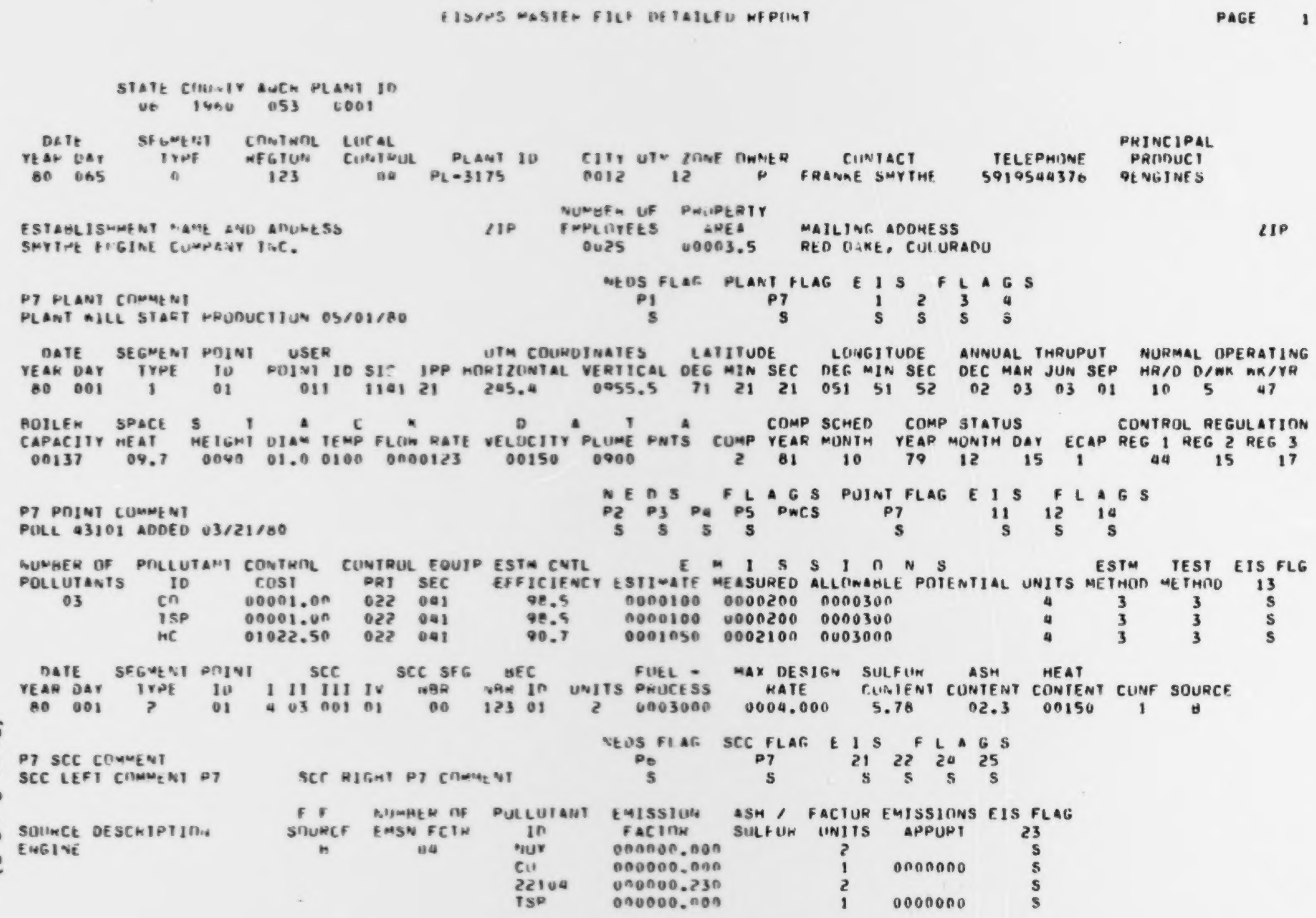
(Page 1 of 5)

```
                                                                        PAGE 1
          FIS/PS MASTER FILE DETAILED REPORT PROGRAM - DIAGNOSTIC REPORT


PROGRAM NAME: PRPMSTR (FP0210)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF SEGMENT 0 RECORDS PRINTED:           4
NUMBER OF SEGMENT 1 RECORDS PRINTED:           6
NUMBER OF SEGMENT 2 RECORDS PRINTED:          24
NUMBER OF SEGMENT 3 RECORDS PRINTED:          15
```

Figure PST29-3 - continued. Sample Output (Page 2 of 5)



```
                                  EIS/PS MASTER FILE DETAILED REPORT                                 PAGE    1

          STATE COUNTY AQCR PLANT ID
           06    1960   053   0001

  DATE       SEGMENT   CONTROL  LOCAL                                                                   PRINCIPAL
YEAR DAY      TYPE     REGION   CONTROL    PLANT ID     CITY UTM ZONE OWNER     CONTACT        TELEPHONE      PRODUCT
 80  065       0        123        08    PL-3175        0012    12      P   FRANKE SMYTHE     5919544376    9ENGINES

                                                       NUMBER OF  PROPERTY
ESTABLISHMENT NAME AND ADDRESS              ZIP      EMPLOYEES    AREA      MAILING ADDRESS                           ZIP
SMYTHE ENGINE COMPANY INC.                             0025     00003.5     RED OAKE, COLORADO

                                                       NEDS FLAG  PLANT FLAG  E I S   F L A G S
P7 PLANT COMMENT                                          P1          P7         1   2   3   4
PLANT WILL START PRODUCTION 05/01/80                      S           S          S   S   S   S

  DATE    SEGMENT POINT    USER                 UTM COORDINATES    LATITUDE     LONGITUDE    ANNUAL THRUPUT    NORMAL OPERATING
YEAR DAY   TYPE    ID    POINT ID SIC  IPP HORIZONTAL VERTICAL DEG MIN SEC  DEG MIN SEC  DEC MAR JUN SEP   HR/D D/WK WK/YR
 80  001    1      01       011   1141 21     285.4     0955.5   71  21  21   051  51  52   02  03  03  01    10   5    47

BOILER    SPACE   S     T    A    C    K        D    A    T    A        COMP SCHED   COMP STATUS           CONTROL REGULATION
CAPACITY HEAT    HEIGHT DIAM TEMP FLOW RATE VELOCITY PLUME PNTS  COMP YEAR MONTH  YEAR MONTH DAY  ECAP REG 1 REG 2 REG 3
 00137    09.7    0090  01.0 0100  0000123    00150   0900          2   81    10     79   12    15   1      44    15    17

                                                       N E D S    F L A G S  POINT FLAG  E I S   F L A G S
P7 POINT COMMENT                                       P2  P3  P4  P5  PWCS      P7         11   12   14
POLL 43101 ADDED 03/21/80                               S   S   S   S             S          S    S    S

NUMBER OF  POLLUTANT CONTROL  CONTROL EQUIP ESTM CNTL        E  M  I  S  S  I  O  N  S             ESTM   TEST  EIS FLG
POLLUTANTS    ID      COST      PRI  SEC    EFFICIENCY ESTIMATE MEASURED ALLOWABLE POTENTIAL UNITS METHOD METHOD   13
    03        CO    00001.00    022  041        98.5    0000100  0000200  0000300                4     3      3      S
              TSP   00001.00    022  041        98.5    0000100  0000200  0000300                4     3      3      S
              HC    01022.50    022  041        90.7    0001050  0002100  0003000                4     3      3      S

  DATE    SEGMENT POINT      SCC       SCC SEG   BEC          FUEL -   MAX DESIGN  SULFUR    ASH     HEAT
YEAR DAY   TYPE    ID   I II III IV    NBR    NAR IP  UNITS PROCESS      RATE     CONTENT CONTENT CONTENT CONF SOURCE
 80  001    2      01   4 03 001 01     00    123 01    2   0003000    0004.000    5.78    02.3    00150   1    8

                                                       NEDS FLAG  SCC FLAG  E I S   F L A G S
P7 SCC COMMENT                                            P6         P7       21  22  24  25
SCC LEFT COMMENT P7          SCC RIGHT P7 COMMENT         S          S        S   S   S   S

                                F F     NUMBER OF   POLLUTANT  EMISSION    ASH /  FACTOR EMISSIONS EIS FLAG
SOURCE DESCRIPTION            SOURCE    EMSN FCTR      ID       FACTOR    SULFUR  UNITS   APPORT      23
ENGINE                           H         04         NOX     000000.000             2                 S
                                                      CO      000000.000             1    0000000      S
                                                      22104   000000.230             2                 S
                                                      TSP     000000.000             1    0000000      S
```

Figure PST29-3 - continued. Sample Output (Page 3 of 5)

```
                          EIS/PS MASTER FILE DETAILED REPORT                              PAGE    2


        STATE COUNTY AQCR PLANT ID
          06    1960    053    0001

  DATE    SEGMENT POINT      SCC       SCC SEG    BFC            FUEL -    MAX DESIGN  SULFUR     ASH     HEAT
YEAR DAY    TYPE    ID    I II III IV    NBR    NBR ID  UNITS PROCESS      RATE     CONTENT CONTENT CONTENT CONF SOURCE
 80  065     2      01    4 03 001 02     02    123 01    2   0003000    0004.000     0.23     01.2    00150   1     8

                                                          NEDS FLAG  SCC FLAG  E I S   F L A G S
P7 SCC COMMENT                                               P6         P7       21  22  24  25
POLLUTANT 22104 DELETED ON 03/21/80                          S          S        S   S   S   S

                                E F    NUMBER OF  POLLUTANT  EMISSION    ASH /  FACTOR EMISSIONS EIS FLAG
SOURCE DESCRIPTION            SOURCE   EMSN FCTR     ID        FACTOR    SULFUR  UNITS   APPORT      23
ENGINE EXHAUST FUMES             8        03        TSP      000000.050    A      1     0000000      S
                                                    NOX      000000.000           2                  S
                                                    CO       000000.080    S      1     0000000      S
```

- -

```
                          EIS/PS MASTER FILE DETAILED REPORT                              PAGE    3


        STATE COUNTY AQCR PLANT ID
          06    1960    053    0001

SEGMENT POINT SEQ
  TYPE    ID   NBR
   3      01    02

 DATE  LINE  EIS  COMMENT
YR DAY  NBR FL 30
80 065  001   S   THIS COMMENT ADDED 03/21/80
80 065  021   S   PLANT NOW FOLLOWING GUIDELINES AS SET DOWN 12/14/79  WILL NOT BE CITED FOR VIOLATIONS
80 065  022   S   THIS IS THE END OF THIS COMMENT
```

Figure PST29-3 - continued. Sample Output

(Page 4 of 5)

BEST DOCUMENT AVAILABLE

```
                                        EIS/PS MASTER FILE DETAILED REPORT                                    PAGE    4


                     STATE COUNTY AQCR PLANT ID
                      06    1960   053   0001

              SEGMENT POINT SEQ
                TYPE   ID    NBR
                 3     01     03

               DATE  LINE  EIS  COMMENT
              YR DAY  NBR  FL 30
              80 066  001   A   START COMMENT
              80 066  002   A   CONTINUE MONITORING THIS PLANT UNTIL FURTHER NOTICE
              80 066  003   A   CITE PLANT FOR VIOLATIONS OCCURRING AFTER 03/06/80
              80 066  004   A   END COMMENT
```

```
---------------------------------------------------------------------------
```

```
                                        EIS/PS MASTER FILE DETAILED REPORT                                    PAGE    5


                     STATE COUNTY AQCR PLANT ID
                      06    1960   053   0001

              SEGMENT POINT SEQ
                TYPE   ID    NBR
                 3     01     04

               DATE  LINE  EIS  COMMENT
              YR DAY  NBR  FL 30
              80 066  001   A   START COMMENT
              80 066  002   A   THIS IS A TEST COMMENT.....PAGE-BREAK OCCURS DUE TO CHANGE IN SEQUENCE NUMBER
              80 066  003   A   END COMMENT
```

Figure PST29-3 - continued. Sample Output
(Page 5 of 5)

EIS/PS Test 30 - Ad Hoc

Generate Master File Emission Factor Transactions and Insert Emission Factors

In this test run, master file emission factor transactions are generated and emission factors are inserted into them using the cataloged procedure EPMSM10. This procedure executes PMSEFGN (EP0130), the master file emission factor transaction generator program; PSREFIN (EP0090), the master file internal transaction pre-insertion sort program; and PMSEFIN (EP0100), the master file internal transaction emission factor insertion program.

PMSEFGN (EP0130) generates EIS/PS 21 and 23 internal transactions to update the emission factor information in the master file SCC records. The transactions created by PMSEFGN (EP0130) must be sorted by the master file internal transaction pre-insertion sort program, PSREFIN (EP0090), and processed by the master file internal transaction emission factor insertion program, PMSEFIN (EP0100), before they can be used to update the master file. See EIS/PS Test 7 for a discussion of PMSEFGN (EP0130) and EIS/PS Test 4 for a discussion of PSREFIN (EP0090) and PMSEFIN (EP0100).

The run stream for this test run contains the JCL needed to generate master file emission factor transactions and insert emission factors into them. This run stream is shown in Figure PST30-1.

Substitutable parameters are used to supply the names of the master file input to PMSEFGN (EP0130), the transaction file output from PMSEFGN (EP0130) and input to PSREFIN (EP0090), and the emission factor file input to PMSEFIN (EP0100). The names of these files are EPMSTR6, EPINTR8, and EPEMFC2, respectively. The DD (data definition) information for the option card input to PMSEFGN (EP0130) is also supplied. No DD information for the option card input to PMSEFIN (EP0100) is necessary since the option card is generated by PMSEFGN (EP0130) and passed directly to PMSEFIN (EP0100). Sample output produced by this run stream is shown in Figure PST30-2.

BEST DOCUMENT AVAILABLE

```
//PSTEST30 JOB     (ACCOUNTING INFO)
//*
//*    GENERATE EMISSION FACTOR INTERNAL TRANSACTIONS FROM
//*    THE MASTER FILE
//*
//TEST30A EXEC EPMSM10,
//         EMFCFIL=EPEMFC2,
//         MSTRFIL=EPMSTR6,
//         NEWINTR=EPINTRB
//*
//*    GENERATE TRANSACTIONS FOR FEDERAL-ORIGIN SCC RECORDS AND
//*    FOR WHICH THE CORRESPONDING EMISSION FACTOR RECORD HAS A
//*    DATE NO LESS THAN 1980, DAY 57, AND THE MASTER FILE RECORD
//*    HAS A DATE LESS THAN THAT CUTOFF DATE
//*
//GENER.OPTIONS DD *
F       80057      FLAGR
```

Figure PST30-1. Run Stream

```
                       MASTER FILE EMISSION FACTOR TRANSACTION GENERATOR PROGRAM                                PAGE    1


PROGRAM NAME: PMSEFGN (EP0130)
REVISION LEVEL:  1-00
LAST UPDATE #:   P-1
DATE INCORPORATED:  FEBRUARY 1, 1980



OPTIONS IN EFFECT:  FLAGW

          ORIGIN AND SOURCE SPECIFIED:  FEDERAL

          DATE SPECIFIED:  80057



0619600530000040100022206001980500000
          *** PMSEFGN 004 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD FOR ORIGIN/SOURCE AND DATE SPECIFIED

0619600530000040100022307005010000000
          *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE

0619600530000040100022302005020200000
          *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE

0619600530000040100022403001040100000
          *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE

0620040531127330101272302005010000000
          *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE

0620040531127330101272302005020200000
          *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE

0620040531127330111122302005010000000
          *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE

0620040531127330111122302005020200000
          *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE
```

Figure PST30-2. Sample Output (Page 1 of 5)

```
                                 MASTER FILE EMISSION FACTOR TRANSACTION GENERATION PROGRAM                                        PAGE


34000402030000000600022102006030000000
          *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE


34000402030000000600032102006030000000
          *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE


34000402030000000700012102006030000000
          *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE


34000402030000000800012102005030000000
          *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE



PROGRAM NAME: PMSEFGN (EP0130)
REVISION LEVEL:  1-00
LAST UPDATE #:   P-1
DATE INCORPORATED:  FEBRUARY 1, 1980



NUMBER OF MASTER FILE RECORDS READ:                   169
NUMBER OF EMISSION FACTOR RECORDS READ:               638
NUMBER OF 21 TRANSACTIONS CREATED:                      1
NUMBER OF 23 TRANSACTIONS CREATED:                      0
NUMBER OF WARNING MESSAGES:                            57
NUMBER OF CONDITIONAL MESSAGES:                         0
NUMBER OF ERROR MESSAGES:                               0
NUMBER OF ABORT MESSAGES:                               0
NUMBER OF DISASTER MESSAGES:                            0
```

Figure PST30-2 - continued. Sample Output
(Page 2 of 5)

```
FIS/FS MASTER FILE INTERNAL TRANSACTION PRE-INSERTION SORT PROGRAM  -  DIAGNOSTIC REPORT              PAGE 1


PROGRAM NAME: PSRFFIN (EP0090)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF INPUT TRANSACTIONS:        5
NUMBER OF OUTPUT TRANSACTIONS:       5
```

Figure PST30-2 - continued. Sample Output

(Page 3 of 5)

```
                     MASTER FILE INTERNAL TRANSACTION EMISSION FACTOR INSERTION PROGRAM                        PAGE

PROGRAM NAME: PMSEFIN (EP0100)
REVISION LEVEL:  1-00
LAST UPDATE #:   P-1
DATE INCORPORATED:  FEBRUARY 1, 1980


OPTIONS IN EFFECT:  FLAGN

          FIELDS SELECTED FOR INSERTIONS:  SUL  ASH  EMISSION     EDAT 80057

          FIELDS TO BE OVERRIDDEN:  NONE


FLAGN   SUL I  ASH I  EMISSION I  EDAT 80057                                    N


          *** PMSEFIN 012 ERROR - NO VALID OVERRIDES SPECIFIED - NO OVERRIDES ASSUMED


  SULFUR I  N  ASH I  N  EMISSION FACTOR I  N                          DATE: EMISSION FACTOR 80057  TRANSACTION   N


0619600530000040100022302002011000000232061960053004180057             F 42101                              23C
          *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

0619600530000040100022302002011000000232061960053004180057             F 42401                              23C
          *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

0619600530000040100022302002011000000232061960053004180057             F 43101                              23C
          *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD
```

Figure PST30-2 - continued. Sample Output

(Page 4 of 5)

```
                         MASTER FILE INTERNAL TRANSACTION EMISSION FACTOR INSERTION PROGRAM                          PAGE   2


  SULFUR I  N  ASH I  N  EMISSION FACTOR I  N                                   DATE: EMISSION FACTOR 80057  TRANSACTION   N


 NUMBER OF INPUT TRANSACTIONS:                 5
 NUMBER OF EMISSION FACTOR RECORDS READ:     253
 NUMBER OF INSERTIONS MADE:                    1
 NUMBER OF OUTPUT TRANSACTIONS:                5
 NUMBER OF 23 TRANSACTIONS CREATED:            0
 NUMBER OF WARNING MESSAGES:                   3
 NUMBER OF CONDITIONAL MESSAGES:               0
 NUMBER OF ERROR MESSAGES:                     1
 NUMBER OF ABORT MESSAGES:                     0
 NUMBER OF DISASTER MESSAGES:                  0
```

Figure PST30-2 - continued. Sample Output (Page 5 of 5)

EIS/PS Test 31 - Ad Hoc

Generate Master File Emission Factor Transactions and Update the Master File

In this test run, the master file is updated from master file emission factor transactions using the cataloged procedure EPFMM30 which executes PMSEFGN (EP0130), the master file emission factor transaction generator program; PSREFIN (EP0090), the master file internal transaction pre-insertion program; PMSEFIN (EP0100), the master file internal transaction emission factor insertion program; PSRINTR (EP0110), the master file internal transaction sort program; and PFMMSTR (EP0120), the master file maintenance program.

The purpose of this test run is to test the cataloged procedure EPFMM30. All of the programs executed by this procedure have been described in previous tests. Refer to Test 7 for a discussion of PMSEFGN (EP0130), PSREFIN (EP0090), and PMSEFIN (EP0100). A description of the file maintenance programs, PSRINTR (EP0110) and PFMMSTR (EP0120), is provided in Test 4.

The run stream for this test run contains the JCL needed to update the master file using master file emission factor transactions. This run stream is shown in Figure PST31-1.

The cataloged procedure executed by this run stream is EPFMM30. Substitutable parameters are used to specify the name of the input emission factor file as EPEMFC3 (created in Test 16), the name of the input master file as EPMSTR1 (created in Test 4), and the name of the output master file as EPMSTR7. The user must supply the DD (data definition) information for the option card files in the GENER, INSERT, and UPDATE steps. The options specified in the GENER step are F, 80050, and NOFLAGW; the options specified in the INSERT step are NOFLAGW, SUL I, ASH I, and EMISSION I; the option specified in the UPDATE step is 80. Sample output produced by this test run is shown in Figure PST31-2.

```
//PSTEST31 JOB   (ACCOUNTING INFO)
//*
//*    GENERATE MASTER FILE EMISSION FACTOR TRANSACTIONS AND
//*    UPDATE THE MASTER FILE
//*
//TEST31A EXEC EPEMM30,
//        EMFCFIL=EPEMFC3,
//        OLDMSTR=EPMSTR1,
//        NEWMSTR=EPMSTR7
//*
//*    CREATE INTERNAL TRANSACTIONS FROM THE TEST 4
//*    MASTER FILE; INSERT NEW EMISSION FACTOR FILE
//*    INFORMATION INTO THE TRANSACTIONS; UPDATE THE
//*    MASTER FILE WITH THESE TRANSACTIONS
//*
//GENER.OPTIONS DD *
F       80050 NCFLAG=
//INSERT.CARD DD *
NCFLAG= SUL 1  ASH 1  EMISSION 1
//UPDATE.OPTIONS DD *
F0
```

Figure PST31-1. Run Stream

```
PROGRAM NAME: PMSEFGN (EP0130)
REVISION LEVEL:  1-00
LAST UPDATE #:   P-1
DATE INCORPORATED:  FEBRUARY 1, 1980



OPTIONS IN EFFECT:  NOFLAGM

          ORIGIN AND SOURCE SPECIFIED:  FEDERAL

          DATE SPECIFIED:  80050



F      80050 NOFLAGM                                              17.
          *** PMSEFGN 006 ERROR - INVALID FLAGM OPTION SPECIFIED - NOFLAGM ASSUMED



NUMBER OF MASTER FILE RECORDS READ:                123
NUMBER OF EMISSION FACTOR RECORDS READ:            656
NUMBER OF 21 TRANSACTIONS CREATED:                   0
NUMBER OF 23 TRANSACTIONS CREATED:                   0
NUMBER OF WARNING MESSAGES:                         46
NUMBER OF CONDITIONAL MESSAGES:                      0
NUMBER OF ERROR MESSAGES:                            1
NUMBER OF ABORT MESSAGES:                            0
NUMBER OF DISASTER MESSAGES:                         0
```

Figure PST31-2. Sample Output (Page 1 of 4)

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```
EIS/PS MASTER FILE INTERNAL TRANSACTION PRE-INSERTION SORT PROGRAM  -  DIAGNOSTIC REPORT              PAGE 1

PROGRAM NAME: PSREFIN (EP0090)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF INPUT TRANSACTIONS:           0
NUMBER OF OUTPUT TRANSACTIONS:          0
```

Figure PST31-2 - continued. Sample Output
(Page 2 of 4)

```
                    MASTER FILE INTERNAL TRANSACTION EMISSION FACTOR INSERTION PROGRAM                    PAGE


PROGRAM NAME: PRSEFIN (EP0100)
REVISION LEVEL:  1-00
LAST UPDATE #:   P-1
DATE INCORPORATED:  FEBRUARY 1, 1980


OPTIONS IN EFFECT:  NOFLAGS

          FIELDS SELECTED FOR INSERTIONS:  SUL  ASH  EMISSION     EDAT 80050

          FIELDS TO BE OVERRIDDEN:  NONE


        SUL I  ASH I  EMISSION I  EDAT 80050                                      N


          *** PRSEFIN 012 ERROR - NO VALID OVERRIDES SPECIFIED - NO OVERRIDES ASSUMED


   SULFUR I  N  ASH I  N  EMISSION FACTOR I  N                          DATE: EMISSION FACTOR 80050  TRANSACTION   N


NUMBER OF INPUT TRANSACTIONS:                   0
NUMBER OF EMISSION FACTOR RECORDS READ:         2
NUMBER OF INSERTIONS MADE:                      0
NUMBER OF OUTPUT TRANSACTIONS:                  0
NUMBER OF 23 TRANSACTIONS CREATED:              0
NUMBER OF WARNING MESSAGES:                     0
NUMBER OF CONDITIONAL MESSAGES:                 0
NUMBER OF ERROR MESSAGES:                       1
NUMBER OF ABORT MESSAGES:                       0
NUMBER OF DISASTER MESSAGES:                    0
```

Figure PST31-2 - continued. Sample Output
(Page 3 of 4)

```
                         ETS/PS MASTER FILE INTERNAL TRANSACTION SORT PROGRAM                  PAGE 1

PROGRAM NAME: PSRINTP (EP0110)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980


NUMBER OF INPUT TRANSACTIONS:        0
NUMBER OF OUTPUT TRANSACTIONS:       0



- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -



                       FIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSSAGES                    PAGE     1
PROGRAM NAME: PFMMSTR (EP0120)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD

   CONTROL DATE IS 80    ,  ERROR OPTION IS NOFLAGW,  LIST OPTION IS NOLIST



- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -



                       FIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSSAGES                    PAGE     2
   NUMBER OF INPUT TRANSACTIONS READ                             0
   NUMBER OF DISASTERS DETECTED                                  0
   NUMBER OF ABORTS DETECTED                                     0
   NUMBER OF ERRORS DETECTED                                     0
   NUMBER OF CONDITIONALS DETECTED                               0
   NUMBER OF WARNINGS DETECTED                                   0
   NUMBER OF TRANSACTIONS REJECTED                               0
   NUMBER OF POINT SOURCE FILE RECORDS READ IN                 123
   NUMBER OF POINT SOURCE FILE RECORDS WRITTEN OUT             123
```

Figure PST31-2 - continued. Sample Output

(Page 4 of 4)

EIS/PS Test 32 - Ad Hoc

Produce a Multipollutant Summary Report in the Point Format

In this test run, a multipollutant summary report is generated in the point format using the cataloged procedure EPRPM40. This procedure executes PRPPSUM (EP0240), the master file multipollutant summary report program.

PRPPSUM (EP0240) produces a report which summarizes the emissions estimates in the master file for a maximum of ten user-specified pollutant ID's. The report may be generated in one of five formats: point, plant, AQCR, county, or state. The report format as well as the pollutant ID's and their report headings are specified via control cards.

The type of report that should be generated depends on the needs of the user. If the user requires that the emissions estimates in the point record for the specified pollutant ID's be listed, the summary report must be generated in the point format. This report will also list the total emissions for each specified pollutant ID by plant, AQCR, county, and state. If the user does not need the emissions printed for each point, the report may be generated in either the plant format, which lists the emissions by plant, AQCR, county, and state; the AQCR format, which lists the emissions by AQCR, county, and state; the county format, which lists the emissions by county and state; or the state format, which lists the emissions by state.

There are five types of control cards which can be input to PRPPSUM (EP0240). The type-1 control card allows the user to specify the pollutant ID's to be used in producing the report and the date which will be printed at the top of each report page. Page 1 of Figure PST32-1 shows the fields in which the pollutant ID's and the date must be coded.

At least one pollutant ID must be specified on the type-1 control card; and each specified pollutant ID must be numeric. Also, the pollutant ID's must be coded in consecutive fields starting with the first field of the control card. Note that a maximum of ten pollutant ID's can be specified. A '1' must be coded in card column 80. If there is not a valid type-1 control card in the run stream, program execution will be terminated.

A descriptive heading for each pollutant ID specified on the type-1 control card will be printed at the top of every report page. Each heading is composed of three nine-character lines. Control card types 2, 3, and 4 allow the user to supply the first two lines of the headings for the pollutant ID's which are to be reported; the third line is supplied by the program and contains the corresponding pollutant ID specified on the type-1 control card. Pages 2, 3, and 4 of Figure PST32-1 show the fields in which the pollutant ID headings must be coded. The correct card type must be specified in card column 80.

The type-5 control card allows the user to specify the type of summary report to be generated. The type of report is determined by the option specified in the report format option field. Either POINT, PLANT, AQCR, COUNTY, or STATE can be coded beginning in the first column of this field. Also, a '5' must be coded in card column 80. Page 5 of Figure PST32-1 shows the type-5 control card format. If the type-5 control card is not present in the run stream or if the report format option is specified incorrectly, the default of POINT will be assumed and the report will be generated in the point format.

The run stream for this test run contains the JCL needed to generate a multipollutant summary report. This run stream is shown in Figure PST32-2 and the sample output produced by this test run is shown in Figure PST32-3.

In the run stream a substitutable parameter is used to specify the input master file as EPMSTR6 (created in Test 19). The DD (data definition) information for the input option card file is also supplied in the run stream.

This test utilizes each of the five control card types. The type-1 control card contains the ten pollutant ID's to be reported. Note that the date field is blank. All of the headings for the pollutant ID's are supplied using the type-2, type-3, and type-4 control cards. The option specified on the type-5 card is POINT; thus, the multipollutant summary report will be generated in the point format.

Type 1

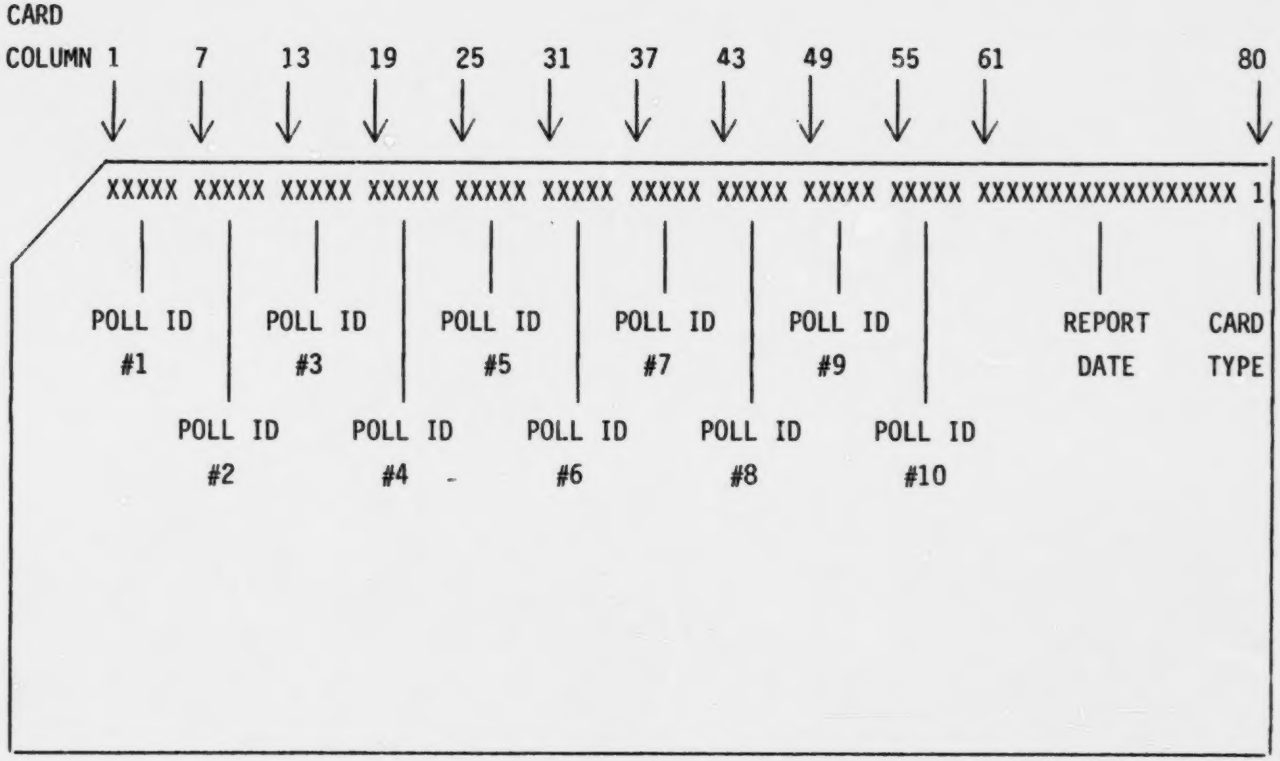
CARD
COLUMN 1
7
13
19
25
31
37
43
49
55
61
80
XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXXXXXXXXXXXXXXX 1
POLL ID #1
POLL ID #2
POLL ID #3
POLL ID #4
POLL ID #5
POLL ID #6
POLL ID #7
POLL ID #8
POLL ID #9
POLL ID #10
REPORT DATE
CARD TYPE

Figure PST32-1. Control Card Formats

(Page 1 of 5)

Type 2

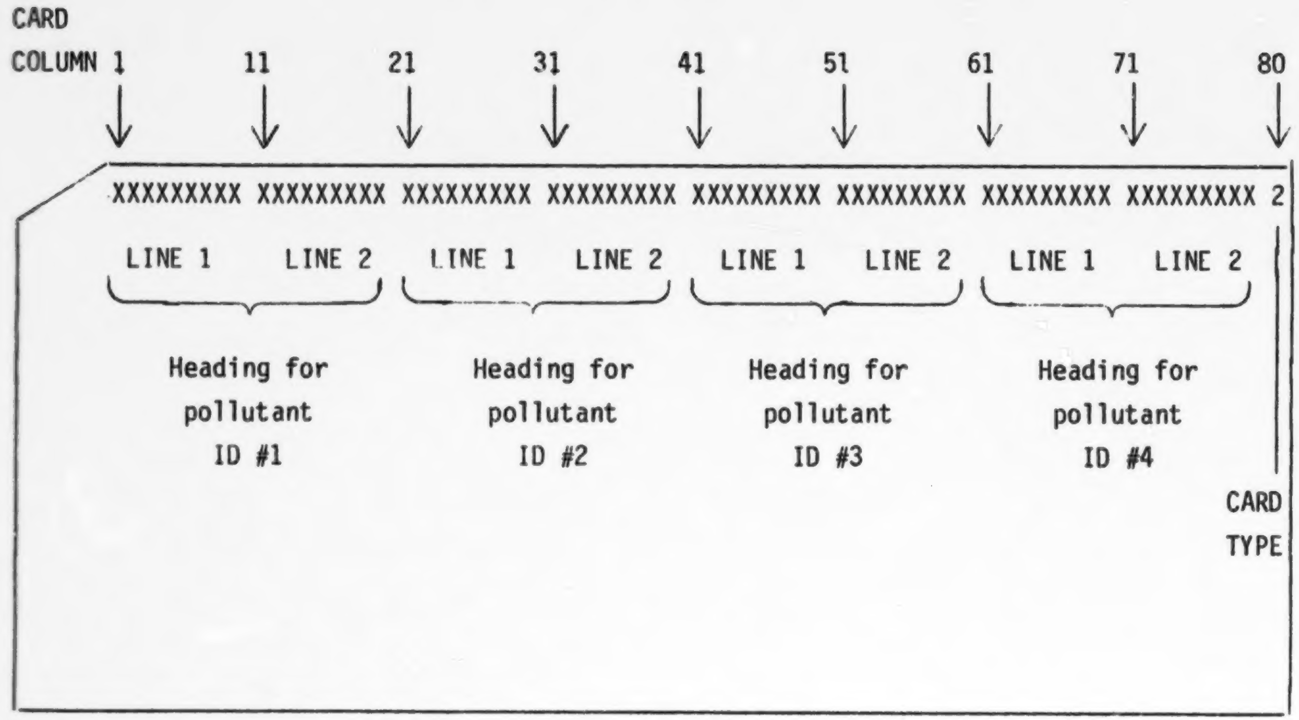
CARD
COLUMN 1
11
21
31
41
51
61
71
80
XXXXXXXXX XXXXXXXXX XXXXXXXXX XXXXXXXXX XXXXXXXXX XXXXXXXXX XXXXXXXXX XXXXXXXXX 2
LINE 1
LINE 2
LINE 1
LINE 2
LINE 1
LINE 2
LINE 1
LINE 2
Heading for pollutant ID #1
Heading for pollutant ID #2
Heading for pollutant ID #3
Heading for pollutant ID #4
CARD TYPE

Figure PST32-1 - continued. Control Card Formats

(Page 2 of 5)

Type 3

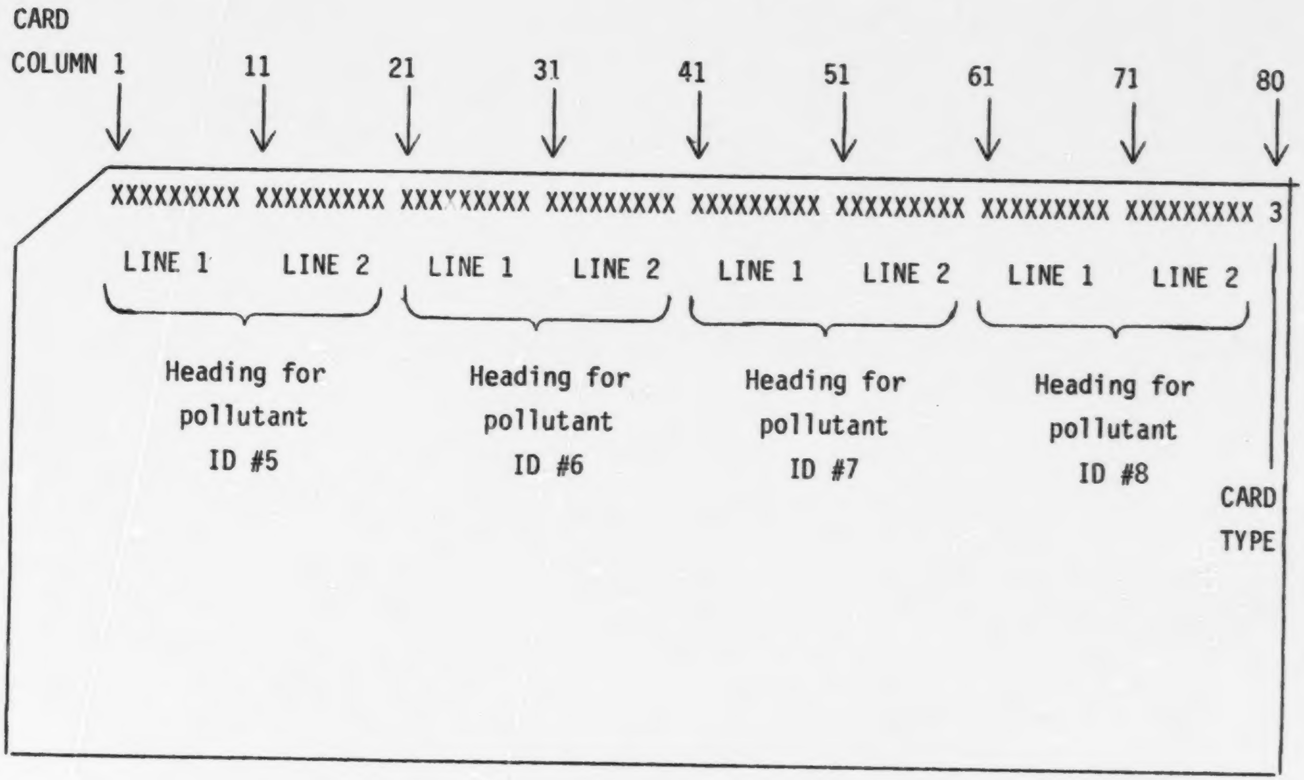
CARD
COLUMN 1
11
21
31
41
51
61
71
80
XXXXXXXXX XXXXXXXXX XXXXXXXXX XXXXXXXXX XXXXXXXXX XXXXXXXXX XXXXXXXXX XXXXXXXXX 3
LINE 1
LINE 2
LINE 1
LINE 2
LINE 1
LINE 2
LINE 1
LINE 2
Heading for pollutant ID #5
Heading for pollutant ID #6
Heading for pollutant ID #7
Heading for pollutant ID #8
CARD TYPE

Figure PST32-1 - continued. Control Card Formats

(Page 3 of 5)

Type 4

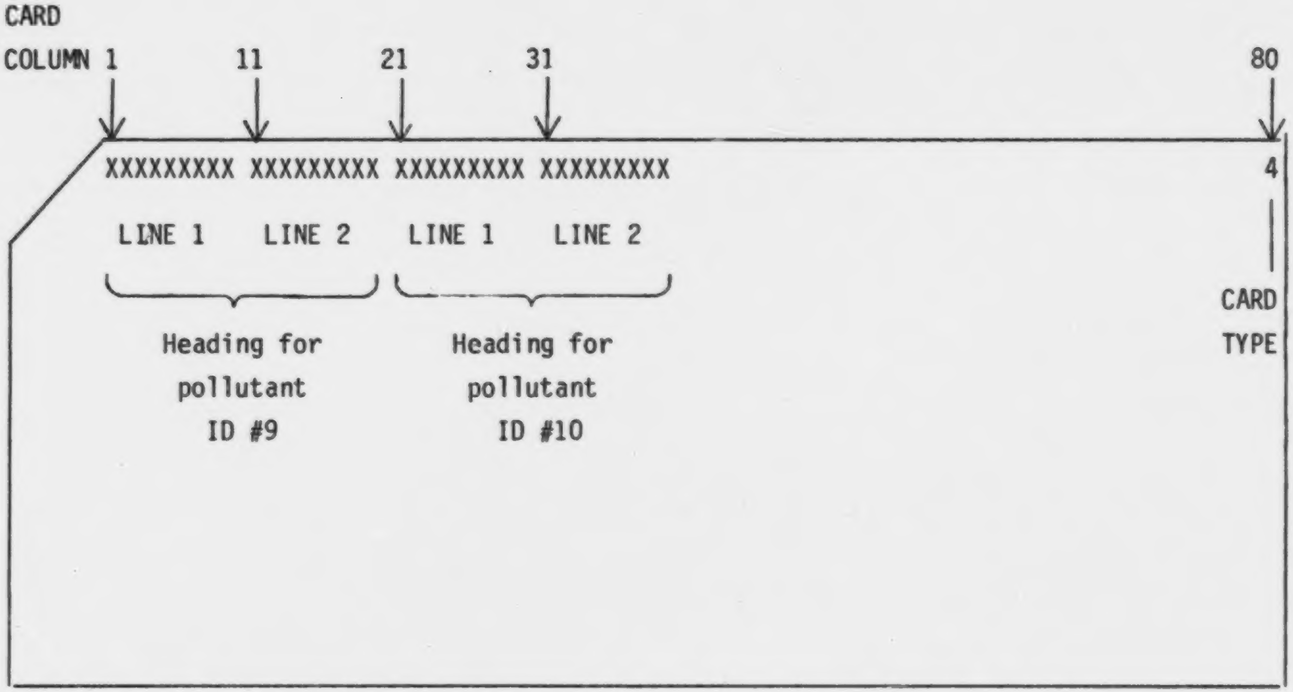
CARD
COLUMN 1
11
21
31
80
XXXXXXXXX XXXXXXXXX XXXXXXXXX XXXXXXXXX
4
LINE 1
LINE 2
LINE 1
LINE 2
Heading for pollutant ID #9
Heading for pollutant ID #10
CARD TYPE

Figure PST32-1 - continued. Control Card Formats

(Page 4 of 5)

Type 5

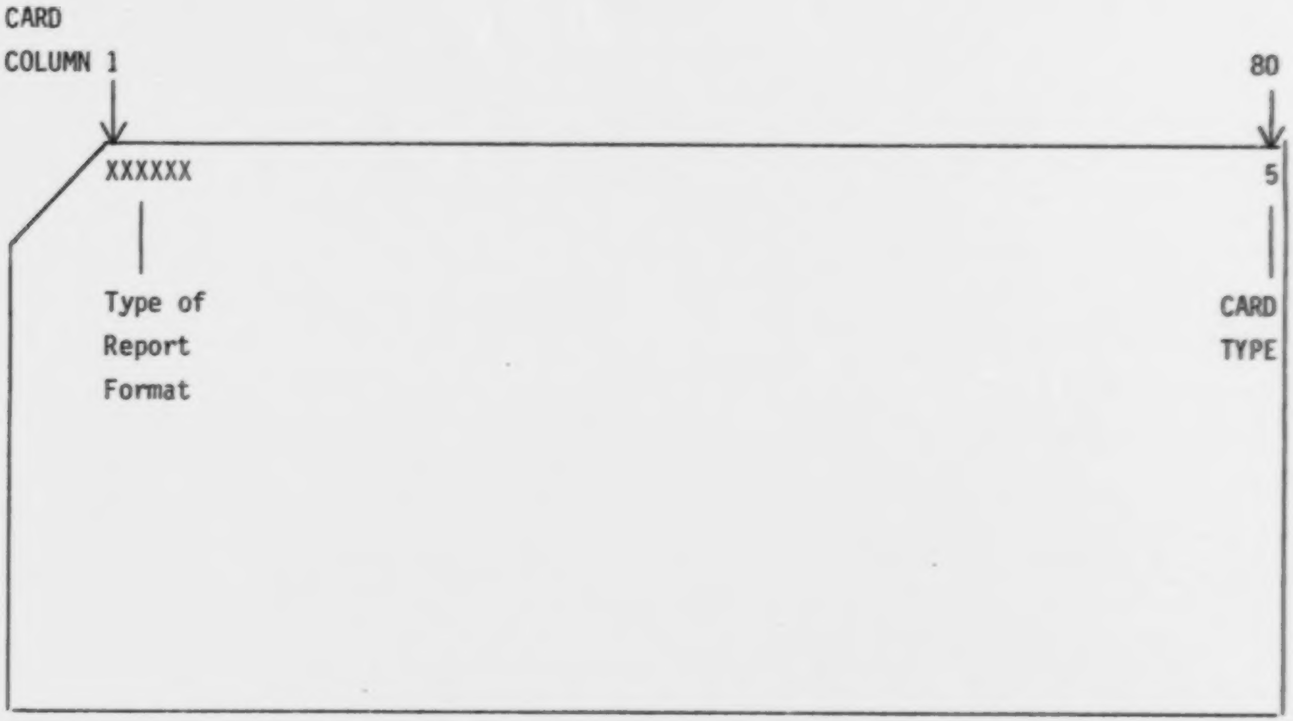
CARD
COLUMN 1
80
XXXXXX
5
Type of
Report
Format
CARD
TYPE

Figure PST32-1 - continued. Control Card Formats

(Page 5 of 5)

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```
//PSTEST32 JOB    (ACCOUNTING INFO)
//*
//*   PRODUCE A MULTI-POLLUTANT SUMMARY REPORT USING THE POINT OPTION
//*
//TEST32 EXEC EPRPM40,
//        MSTRFIL=FPMSTRA
//*
//*   GENERATE THE REPORT FOR A MAXIMUM NUMBER OF POLLUTANTS, 10
//*
//REPORT.OPTION DD *
11101 42101 42401 42602 43101 44201 12128 11337 26202 26301                    1
SUSPENDED PARTICULA CARBON    MONOXIDE  SULFUR    DIOXIDE   NITROGEN  DIOXIDE  2
TOTAL     HYDROCARB           OZONE               LEAD      URANIUM   --235    3
HYDROCARB OCTANE    BUTYL     ALCOHOL                                          4
POINT                                                                          5
/*
```

Figure PST32-2. Run Stream

```
                             EIS/PS MULTIPOLLUTANT SUMMARY REPORT PROGRAM - DIAGNOSTIC REPORT                              PAGE        1

PROGRAM NAME: PRPPSUM (EP0240)
REVISION LEVEL: 1-00
LAST UPDATE #: P-2
DATE INCORPORATED: SEPTEMBER 1, 1980

    OPTIONS IN EFFECT:

        EMISSION TOTALS TO BE GENERATED ARE: POINT

        POLLUTANTS SUMMARIZED ARE: 11101 42101 42401 42602 43101 44201 12128 11337 26202 26301

        HEADINGS SUPPLIED BY USER ARE:
             SUSPENDED CARBON    SULFUR    NITROGEN  TOTAL                         URANIUM   HYDROCARB BUTYL
             PARTICULA MONOXIDE  DIOXIDE   DIOXIDE   HYDROCARB OZONE     LEAD      --235     OCTANE    ALCOHOL


NUMBER OF PLANT RECORDS READ:                      32
NUMBER OF POINT RECORDS READ:                      53
NUMBER OF SCC RECORDS READ:                        69
NUMBER OF COMMENT RECORDS READ:                    15
TOTAL NUMBER OF MASTER FILE RECORDS READ:         169
NUMBER OF CONTROL CARDS READ:                       5

NUMBER OF ABORT MESSAGES:                           0
NUMBER OF DISASTER MESSAGES:                        0
NUMBER OF ERROR MESSAGES:                           0
```

Figure PST32-3. Sample Output (Page 1 of 2)

```
                                          THE EIS/PS MULTIPOLLUTANT SUMMARY REPORT                          PAGE       3

                                  SUSPENDED CARBON    SULFUR    NITROGEN  TOTAL                         URANIUM   HYDROCARB BUTYL
                                  PARTICULA MONOXIDE  DIOXIDE   DIOXIDE   HYDROCARB OZONE     LEAD      --235     OCTANE    ALCOHOL
STATE COUNTY AQCR PLANT POINT         11101     42101     42401     42602     43101     44201     12128     11337     26202     26301
----- ------ ---- ----- -----     --------- --------- --------- --------- --------- --------- --------- --------- --------- ---------

   * TOTALS FOR PLANT 0001                0         0         0         0         0         0         0         0         0         0

   18   0040  224  0002    01             0         0         0         0         0

   * TOTALS FOR PLANT 0002                0         0         0         0         0         0         0         0         0         0

   18   0040  224  0005    01           123         1        29         7         0
                           02             4         1        37         9         0
                           03             3         1        28         7         0
                           04             3         1         4         1         0
                           05             0         0         3         2         0
                           06             0         0         2         4         2
                           07             0         0         2         4         1

   * TOTALS FOR PLANT 0005              133         4       105        34         3         0         0         0         0         0


  ** TOTALS FOR AQCR 224                133         4       105        34         3         0         0         0         0         0


 *** TOTALS FOR COUNTY 0040             133         4       105        34         3         0         0         0         0         0


   18   0060  224  0001    01             7         0         0         0         0

   * TOTALS FOR PLANT 0001                7         0         0         0         0         0         0         0         0         0

   18   0060  224  0002    01             0         0         1         1         0

   * TOTALS FOR PLANT 0002                0         0         1         1         0         0         0         0         0         0

   18   0060  224  0003    01           247         4       130        28         2
                           02           109         2        57        13         1
                           03           454         7       239        52         3
                           04             4         1        26         7         1

   * TOTALS FOR PLANT 0003              814        14       452       100         7         0         0         0         0         0


  ** TOTALS FOR AQCR 224                821        14       453       101         7         0         0         0         0         0


 *** TOTALS FOR COUNTY 0060             821        14       453       101         7         0         0         0         0         0


**** TOTALS FOR STATE 18                954        18       558       135        10         0         0         0         0         0
```

Figure PST32-3 - continued. Sample Output
(Page 2 of 2)

EIS/PS Test 33 - Ad Hoc

Produce a Multipollutant Summary Report in the Plant Format

In this test run, a multipollutant summary report is generated in the plant format using the cataloged procedure EPRPM40 which executes PRPPSUM (EP0240), the master file multipollutant summary report program. For a description of this program, refer to Test 32.

The run stream for this test run contains the JCL needed to generate a multipollutant summary report. This run stream is shown in Figure PST33-1 and the sample output produced by this test run is shown in Figure PST33-2.

In the run stream a substitutable parameter is used to specify the input master file as EPMSTR5 (created in Test 11). The DD (data definition) information for the input option card file is also supplied in the run stream.

Only two control cards are input to PRPPSUM (EP0240): the type-1 and type-5 cards. The options coded on the type-1 card indicate that the emissions for the pollutant ID's 11101 and 42401 are to be reported and that the date September 1, 1980, will be printed at the top of each report page. The option specified on the type-5 card is PLANT; thus, the multipollutant summary report will be generated in the plant format. All of the headings for the pollutant ID's are generated by PRPPSUM (EP0240) since they are not supplied on the type-2 control card.

```
//PSTEST33 JOB    (ACCOUNTING INFO)
//*
//*   PRODUCE A MULTI-POLLUTANT SUMMARY REPORT USING
//*   THE PLANT OPTION
//*
//TEST33 EXEC FPRPM40,
//       MSTRFIL=FPMSTR5
//*
//*   GENERATE THE REPORT FOR 2 POLLUTANTS,
//*   TSP AND CO
//*
//REPORT.OPTION DD *
11101 82401                                                 SEPTEMBER 1, 1980 1
PLANT                                                                         5
/*
```

Figure PST33-1. Run Stream

```
                    EIS/PS MULTIPOLLUTANT SUMMARY REPORT PROGRAM - DIAGNOSTIC REPORT                    PAGE

PROGRAM NAME: PRPPSUM (EP0240)
REVISION LEVEL: 1-00
LAST UPDATE #: P-2
DATE INCORPORATED: SEPTEMBER 1, 1980

    OPTIONS IN EFFECT:

        REPORT DATE IS:  SEPTEMBER 1, 1980

        EMISSION TOTALS TO BE GENERATED ARE: PLANT

        POLLUTANTS SUMMARIZED ARE: 11101 42401

        HEADINGS ARE GENERATED


NUMBER OF PLANT RECORDS READ:                          32
NUMBER OF POINT RECORDS READ:                          53
NUMBER OF SCC RECORDS READ:                            69
NUMBER OF COMMENT RECORDS READ:                         8
TOTAL NUMBER OF MASTER FILE RECORDS READ:             162
NUMBER OF CONTROL CARDS READ:                           2

NUMBER OF ABORT MESSAGES:                               0
NUMBER OF DISASTER MESSAGES:                            0
NUMBER OF ERROR MESSAGES:                               0
```

Figure PST33-2. Sample Output

(Page 1 of 2)

```
DATE:  SEPTEMBER 1, 1980                THE EIS/PS MULTIPOLLUTANT SUMMARY REPORT                                  PAGE

                                     POLLUTANT POLLUTANT
STATE COUNTY AQCR PLANT POINT          11101     42401
----- ------ ---- ----- -----        --------- ---------

  18    0060  224  0003  -TOTAL-          814       452

  18    0060  224  -TOTAL-                821       453

  18    0060 -TOTAL-                      821       453

  18  -TOTAL-                             959       558

  34    0040  203  0001  -TOTAL-           12        24

  34    0040  203  0002  -TOTAL-            0         0

  34    0040  203  0003  -TOTAL-            1        10

  34    0040  203  0004  -TOTAL-            0         0

  34    0040  203  0005  -TOTAL-           46       156

  34    0040  203  0006  -TOTAL-            0         0

  34    0040  203  0007  -TOTAL-            0         0

  34    0040  203  0008  -TOTAL-            0         0

  34    0040  203  -TOTAL-                 59       190

  34    0040 -TOTAL-                       59       190

  34  -TOTAL-                              59       190
```

Figure PST33-2 - continued. Sample Output

(Page 2 of 2)

EIS/PS Test 34 - Ad Hoc

Produce a Multipollutant Summary Report in the AQCR Format

In this test run, a multipollutant summary report is generated in the AQCR format using the cataloged procedure EPRPM40 which executes PRPPSUM (EP0240), the master file multipollutant summary report program. For a description of this program, refer to Test 32.

The run stream for this test run contains the JCL needed to generate a multipollutant summary report. This run stream is shown in Figure PST34-1 and the sample output produced by this test run is shown in Figure PST34-2.

In the run stream a substitutable parameter is used to specify the input master file as EPMSTR2 (created in Test 5). The DD (data definition) information for the input option card file is also supplied in the run stream.

The options coded on the type-1 control card indicate that the emissions for six pollutant ID's are to be reported and that the date, 09/10/80, will be printed at the top of each report page. Three of the six pollutant headings are supplied using the type-2 and type-3 control cards. The remaining three headings are generated by PRPPSUM (EP0240) since they are not supplied on the control cards. The option specified on the type-5 card is AQCR; thus, the multipollutant summary report will be generated in the AQCR format.

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```
//PSTEST34 JOB   (ACCOUNTING INFO)
//*
//*   PRODUCE A MULTI-POLLUTANT SUMMARY REPORT
//*   WITH THE AQCR OPTION
//*
//TEST34 EXEC FPRPM40,
//       PSTMFIL=EPMSTR2
//*
//*   GENERATE THE REPORT FOR THE 5 CRITERIA POLLUTANTS,
//*   PLUS U-235
//*
//REPORT.OPTION DD *
11101 42101 42401 42602 11337 43101                           09/10/80       1
SUSPENDED PARTICULA                     SULFUR    DIOXIDE                    2
URANIUM   -235                                                               3
AQCR                                                                         5
/*
```

Figure PST34-1. Run Stream

```
                    EIS/PS MULTIPOLLUTANT SUMMARY REPORT PROGRAM - DIAGNOSTIC REPORT                    PAGE

PROGRAM NAME: PRPPSUM (EP0240)
REVISION LEVEL: 1-00
LAST UPDATE #: P-2
DATE INCORPORATED: SEPTEMBER 1, 1980

    OPTIONS IN EFFECT:

        REPORT DATE IS:     09/10/80

        EMISSION TOTALS TO BE GENERATED ARE: AQCR

        POLLUTANTS SUMMARIZED ARE: 11101 42101 42401 42602 11337 43101

        HEADINGS SUPPLIED BY USER ARE:
             SUSPENDED           SULFUR                  URANIUM
             PARTICULA POLLUTANT DIOXIDE    POLLUTANT -235       POLLUTANT


NUMBER OF PLANT RECORDS READ:                        33
NUMBER OF POINT RECORDS READ:                        56
NUMBER OF SCC RECORDS READ:                          75
NUMBER OF COMMENT RECORDS READ:                       8
TOTAL NUMBER OF MASTER FILE RECORDS READ:           172
NUMBER OF CONTROL CARDS READ:                         4

NUMBER OF ABORT MESSAGES:                             0
NUMBER OF DISASTER MESSAGES:                          0
NUMBER OF ERROR MESSAGES:                             0
```

Figure PST34-2. Sample Output (Page 1 of 2)

```
DATE:     09/10/80                          THE EIS/PS MULTIPOLLUTANT SUMMARY REPORT                                  PAGE

                                   SUSPENDED           SULFUR              URANIUM
                                   PARTICULA POLLUTANT DIOXIDE   POLLUTANT -235      POLLUTANT
STATE COUNTY AQCR PLANT POINT        11101     42101     42401     42602     11337     43101
----- ------ ---- ----- -----      --------- --------- --------- --------- --------- ---------

  06   1960  053  -TOTAL-                251       660         0         0         0       230

  06   1960 -TOTAL-                      251       660         0         0         0       230

  06   2004  053  -TOTAL-                430       660         0         0         0       230

  06   2004 -TOTAL-                      430       660         0         0         0       230

  06 -TOTAL-                             681      1320         0         0         0       460

  08   0008  240  -TOTAL-                  0         0         2         0         0         0

  08   0008 -TOTAL-                        0         0         2         0         0         0

  08   0080  240  -TOTAL-                 18         0         0         0         0         1

  08   0080 -TOTAL-                       18         0         0         0         0         1

  08   0120  240  -TOTAL-                 55         0       815       126         0         0

  08   0120 -TOTAL-                       55         0       815       126         0         0

  08 -TOTAL-                              73         0       817       126         0         1

  18   0040  224  -TOTAL-                133         4       105        34         0         3

  18   0040 -TOTAL-                      133         4       105        34         0         3

  18   0060  224  -TOTAL-                821        14       453       101         0         7

  18   0060 -TOTAL-                      821        14       453       101         0         7
```

Figure PST34-2 - continued. Sample Output

(Page 2 of 2)

EIS/PS Test 35 - Ad Hoc

Produce a Multipollutant Summary Report in the County Format

In this test run, a multipollutant summary report is generated in the county format using the cataloged procedure EPRPM40 which executes PRPPSUM (EP0240), the master file multipollutant summary report program. For a description of this program, refer to Test 32.

The run stream for this test run contains the JCL needed to generate a multipollutant summary report. This run stream is shown in Figure PST35-1 and the sample output produced by this test run is shown in Figure PST35-2.

In the run stream a substitutable parameter is used to specify the input master file as EPMSTR4 (created in Test 9). The DD (data definition) information for the input option card file is also supplied in the run stream.

The options coded on the type-1 control card indicate that the emissions for the pollutant ID's 42101, 42401, 42602, and 43101 are to be reported and that the date September 10, 1980, will be printed at the top of each report page. All of the headings for the pollutant ID's are supplied using the type-2 and type-3 control cards. The option specified on the type-5 card is COUNTY; thus, the multipollutant summary report will be generated in the county format.

```
//PSTEST35 JOB   (ACCOUNTING INFO)
//*
//*   PRODUCE A MULTI-POLLUTANT SUMMARY REPORT USING
//*   THE COUNTY OPTION
//*
//TEST35 EXEC FPRFM40,
//       MSTRFIL=FPMSTR4
//*
//*   GENERATE THE REPORT FOR 4 OF THE 5 CRITERIA POLLUTANTS
//*
//REPORT.OPTION DD *
42101 42401 42602 43101                                          SEPT. 10, 1980     1
   CO                SO2                    NO2                      HC             2
COUNTY                                                                              3
/*
```

Figure PST35-1. Run Stream

```
                    EIS/PS MULTIPOLLUTANT SUMMARY REPORT PROGRAM - DIAGNOSTIC REPORT                      PAGE

PROGRAM NAME: PRPPSUM (EP0240)
REVISION LEVEL: 1-00
LAST UPDATE #: P-2
DATE INCORPORATED: SEPTEMBER 1, 1980

    OPTIONS IN EFFECT:

        REPORT DATE IS: SEPT. 10, 1980

        EMISSION TOTALS TO BE GENERATED ARE: COUNTY

        POLLUTANTS SUMMARIZED ARE: 42101 42401 42602 43101

        HEADINGS SUPPLIED BY USER ARE:
                 CO        SO2        NO2        HC


NUMBER OF PLANT RECORDS READ:                          33
NUMBER OF POINT RECORDS READ:                          56
NUMBER OF SCC RECORDS READ:                            75
NUMBER OF COMMENT RECORDS READ:                        11
TOTAL NUMBER OF MASTER FILE RECORDS READ:             175
NUMBER OF CONTROL CARDS READ:                           3

NUMBER OF ABORT MESSAGES:                               0
NUMBER OF DISASTER MESSAGES:                            0
NUMBER OF ERROR MESSAGES:                               0
```

Figure PST35-2. Sample Output

(Page 1 of 2)

```
DATE: SEPT. 10, 1980                    THE EIS/PS MULTIPOLLUTANT SUMMARY REPORT                                    PAGE

                                          CO        SO2        NO2        HC

STATE COUNTY AQCR PLANT POINT           42101      42401      42602      43101
----- ------ ---- ----- -----        ---------  ---------  ---------  ---------

  06    1960 -TOTAL-                        430          0          0       1280

  06    2004 -TOTAL-                        200          0          0          0

  06   -TOTAL-                              630          0          0       1280

  08    0008 -TOTAL-                          0          2          0          0

  08    0080 -TOTAL-                          0          0          0          1

  08    0120 -TOTAL-                          0        815        126          0

  08   -TOTAL-                                0        817        126          1

  18    0040 -TOTAL-                          4        105         34          3

  18    0060 -TOTAL-                         14        453        101          7

  18   -TOTAL-                               18        558        135         10

  34    0040 -TOTAL-                          7        190         62          2

  34   -TOTAL-                                7        190         62          2
```

Figure PST35-2 - continued. Sample Output

(Page 2 of 2)

EIS/PS Test 36 - Ad Hoc

Produce a Multipollutant Summary Report in the State Format

In this test run, a multipollutant summmary report is generated in the state format using the cataloged procedure EPRPM40 which executes PRPPSUM (EP0240), the master file multipollutant summary report program. For a description of this program, refer to Test 32.

The run stream of this test run contains the JCL needed to generate a multipollutant summary report. This run stream is shown in Figure PST36-1 and the sample output produced by this test run shown in Figure PST36-2.

In the run stream a substitutable parameter is used to specify the input master file as EPMSTR3 (created in Test 6). The DD (data definition) information for the input option card file is also supplied in the run stream.

The options coded on the type-1 control card indicate that the emissions for the five criteria pollutants are to be reported and that the date, 09/10/80, will be printed at the top of each report page. All of the headings for the pollutant ID's are supplied using the type-2 and type-3 control cards. The option specified on the type-5 card is STATE; thus, the multipollutant summary report will be generated in the state format.

BEST DOCUMENT AVAILABLE

```
//PSTEST36 JOB   (ACCOUNTING INFO)
//*
//*   PRODUCE A MULTI-POLLUTANT SUMMARY REPORT
//*   USING THE STATE OPTION
//*
//TEST36 EXEC EPRPM40,
//       MSTRFIL=EPMSTR3
//*
//*   GENERATE THE REPORT FOR THE 5 CRITERIA POLLUTANTS
//*
//REPORT.OPTION DD *
11101 42101 42401 42602 43101                                        09/10/80         1
            TSP                 CO                   SO2                        NO2   2
             HC                                                                       3
STATE                                                                                 5
/*
```

Figure PST36-1. Run Stream

```
                    EIS/PS MULTIPOLLUTANT SUMMARY REPORT PROGRAM - DIAGNOSTIC REPORT                              PAGE

PROGRAM NAME: PRPPSUM (EP0240)
REVISION LEVEL: 1-00
LAST UPDATE #: P-2
DATE INCORPORATED: SEPTEMBER 1, 1980

    OPTIONS IN EFFECT:

        REPORT DATE IS: 09/10/80

        EMISSION TOTALS TO BE GENERATED ARE: STATE

        POLLUTANTS SUMMARIZED ARE: 11101 42101 42401 42602 43101

        HEADINGS SUPPLIED BY USER ARE:

                TSP         CO         SO2        NO2          HC


NUMBER OF PLANT RECORDS READ:                         33
NUMBER OF POINT RECORDS READ:                         56
NUMBER OF SCC RECORDS READ:                           75
NUMBER OF COMMENT RECORDS READ:                        8
TOTAL NUMBER OF MASTER FILE RECORDS READ:            172
NUMBER OF CONTROL CARDS READ:                          4

NUMBER OF ABORT MESSAGES:                              0
NUMBER OF DISASTER MESSAGES:                           0
NUMBER OF ERROR MESSAGES:                              0
```

Figure PST36-2. Sample Output (Page 1 of 2)

```
DATE: 09/10/80                            THE EIS/PS MULTIPOLLUTANT SUMMARY REPORT                                   PAGE

STATE COUNTY AQCR PLANT POINT      TSP        CC        SO2       NO2        HC
                                  11101     42101     42401     42602     43101
----- ------ ---- ----- -----  --------- --------- --------- --------- ---------
  06  -TOTAL-                        681      1320         0         0       460

  08  -TOTAL-                         73         0       817       126         1

  18  -TOTAL-                        954        18       558       135        10

  34  -TOTAL-                         59         7       190        62         2
```

Figure PST36-2 - continued. Sample Output (Page 2 of 2)

APPENDIX A

CROSS-REFERENCE OF TESTS, PROCEDURES, AND PROGRAMS

Test	Procedures	Programs
1	EPEME20	PSRNEEF (EP0010)
		PCVNEEF (EP0020)
		PSREFTR (EP0030)
		PEMEFAC (EP0040)
	EPRPE10	PRPEFAC (EP0230)
2	EPEME20	PSRNEEF (EP0010)
		PCVNEEF (EP0020)
		PSREFTR (EP0030)
		PEMEFAC (EP0040)
3	EPEME10	PSREFTR (EP0030)
		PEMEFAC (EP0040)
	EPRPE10	PRPEFAC (EP0230)
4	EPFMM20	PSRNETR (EP0050)
		PCENETR (EP0060)
		PSREFIN (EP0090)
		PMSEFIN (EP0100)
		PSRINTR (EP0110)
		PFMMSTR (EP0120)
5	EPEMM10	PSRMFTR (EP0070)
		PEDMSTR (EP0080)
		PSREFIN (EP0090)
		PMSEFIN (EP0100)
		PSRINTR (EP0110)
		PFMMSTR (EP0120)
	EPRPM30	PRPDUMP (EP0220)
6	EPRPM10	PRPENTR (EP0200)
7	EPMSM10	PMSEFGN (EP0130)
		PSREFIN (EP0090)
		PMSEFIN (EP0100)
8	EPEDT10	PSRMFTR (EP0070)
		PEDMSTR (EP0080)

Test	Procedures	Programs
9	EPMST20	PMSTCON (EP0190)
	EPFMM10	PSRINTR (EP0110)
		PFMMSTR (EP0120)
	EPRPM20	PRPMSTR (EP0210)
10	EPRTM30	PRTLNGP (EP0140)
		PRTGENR (EP0150)
	EPRPM30	PRPDUMP (EP0220)
11	EPRPM10	PRPENTR (EP0200)
12	EPRPM50	PRPEPRJ (EP0250)
13	EPRTM10	PRTLNGP (EP0140)
	EPRTM20	PRTGENR (EP0150)
14	EPRPM20	PRPMSTR (EP0210)
15	EPSRM30	PSRLNGP (EP0160)
		PSRGENR (EP0170)
16	EPEME10	PSREFTR (EP0030)
		PEMEFAC (EP0040)
17	EPCET10	PSRNETR (EP0050)
		PCENETR (EP0060)
18	EPEDT10	PSRMFTR (EP0070)
		PEDMSTR (EP0080)
19	EPMST20	PMSTCON (EP0190)
	EPFMM10	PSRINTR (EP0110)
		PFMMSTR (EP0120)
20	EPMST10	PSREFIN (EP0090)
		PMSEFIN (EP0100)
21	EPRPM50	PRPEPRJ (EP0250)
22	EPRPM50	PRPEPRJ (EP0250)
23	EPRPM60	PRTQLED (EP0260)
		PRTQLEX (EP0270)
		PRPQUIK (EP0280)
	EPRPM20	PRPMSTR (EP0210)
24	EPRPM60	PRTQLED (EP0260)
		PRTQLEX (EP0270)
		PRPQUIK (EP0280)

Test	Procedures	Programs
25	EPRPM70	PRTQLED (EP0260)
		PRTQLEX (EP0270)
		PRPTURN (EP0290)
26	EPRTM40	PRTQLED (EP0260)
		PRTQLEX (EP0270)
	EPRPM30	PRPDUMP (EP0220)
27	EPRTM30	PRTLNGP (EP0140)
		PRTGENR (EP0150)
	EPRPM60	PRTQLED (EP0260)
		PRTQLEX (EP0270)
		PRPQUIK (EP0280)
28	EPRTM30	PRTLNGP (EP0140)
		PRTGENR (EP0150)
	EPRPM30	PRPDUMP (EP0220)
29	EPRTM30	PRTLNGP (EP0140)
		PRTGENR (EP0150)
	EPRPM20	PRPMSTR (EP0210)
30	EPMSM10	PMSEFGN (EP0130)
		PSREFIN (EP0090)
		PMSEFIN (EP0100)

Procedure	Tests
EPCET10	17
EPEDT10	8, 18
EPEME10	3, 16
EPEME20	1, 2
EPEMM10	5
EPFMM10	9, 19
EPFMM20	4
EPMSM10	7, 30
EPMST10	20
EPMST20	9, 19
EPRPE10	1, 3
EPRPM10	6, 11
EPRPM20	9, 14, 23, 29
EPRPM30	5, 10, 26, 28
EPRPM50	12, 21, 22
EPRPM60	23, 24
EPRPM70	25
EPRTM10	13
EPRTM20	13
EPRTM30	10, 28, 29
EPRTM40	26
EPSRM30	15

Program	Tests
PCENETR (EP0060)	4, 17
PCVNEEF (EP0020)	1, 2
PEDMSTR (EP0080)	5, 8, 18
PEMEFAC (EP0040)	1, 2, 3, 16
PFMMSTR (EP0120)	4, 5, 9, 19
PMSEFGN (EP0130)	7, 30
PMSEFIN (EP0100)	4, 5, 7, 20, 30
PMSTCON (EP0190)	9, 19
PRPDUMP (EP0220)	5, 10, 26, 28
PRPEFAC (EP0230)	1, 3
PRPENTR (EP0200)	6, 11
PRPEPRJ (EP0250)	12, 21, 22
PRPMSTR (EP0210)	9, 14, 23, 29
PRPQUIK (EP0280)	23, 24
PRPTURN (EP0290)	25
PRTGENR (EP0150)	10, 13, 28, 29
PRTLNGP (EP0140)	10, 13, 28, 29
PRTQLED (EP0260)	23, 24, 25, 26
PRTQLEX (EP0270)	23, 24, 25, 26
PSREFIN (EP0090)	4, 5, 7, 20, 30
PSREFTR (EP0030)	1, 2, 3, 16
PSRGENR (EP0170)	15
PSRINTR (EP0110)	4, 5, 9, 19
PSRLNGP (EP0160)	15

Program	Tests
PSRMFTR (EP0070)	5, 8, 18
PSRNEEF (EP0010)	1, 2
PSRNETR (EP0050)	4, 17

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TECHNICAL REPORT DATA
(Please read Instructions on the reverse before completing)

1. REPORT NO. EPA 450/4-80-019	2.	3. RECIPIENT'S ACCESSION NO.
4. TITLE AND SUBTITLE Emissions Inventory System/Point Source (EIS/PS) Test Run Series Documentation		5. REPORT DATE October 1980
		6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S) The Research Triangle Institute Operations Analysis Division, Research Triangle Park, NC 27709		8. PERFORMING ORGANIZATION REPORT NO.
9. PERFORMING ORGANIZATION NAME AND ADDRESS Office of Air Quality Planning and Standards Monitoring and Data Analysis Division Research Triangle Park, North Carolina 27711		10. PROGRAM ELEMENT NO.
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15. SUPPLEMENTARY NOTES

16. ABSTRACT

This manual documents the EIS/PS test run series and replaces the Air Pollution Training Institute Manual 475, Comprehensive Data Handling System, Volume 1, Emission Inventory Subsystem/Permits and Registration (EIS/P&R).

The test run series is divided into two major areas: basic test runs and ad hoc test runs. The basic test runs exercise each program in EIS/PS at least once and provide the user with a means of determining whether or not his installation of EIS/PS has been successful.

The ad hoc test runs further exercise the capabilities of the EIS/PS programs. The ad hoc test runs also provide the user with examples of how various combinations of EIS/PS programs may be used to generate certain reports or to accomplish special tasks. Any programs added to the original EIS/PS system are exercised by ad hoc test runs.

The EIS/PS User's Guide should be used as a reference in conjunction with this manual. Appendix A of this manual provides a cross-reference of tests, procedures, and programs.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Computer Programs Computer Software Data Processing Air Pollution Data Handling Computer System Programs Data Base Management System Distributed Processing	CDHS EIS/PS NEDS Atmospheric Pollution System Installation System Testing	

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